

2003030

# REPORT

**Source Area 4  
Groundwater Management Zone  
2017 Report**

Southeast Rockford Groundwater  
Contamination Superfund Site

Rockford, Illinois

Illinois Environmental  
Protection Agency

May 2018

**CDM  
Smith**

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# Section 1

## Introduction

CDM Smith Inc. (CDM Smith), has prepared this Groundwater Management Zone (GMZ) 2017 Report under contract to the Illinois Environmental Protection Agency (Illinois EPA) to document the controls, management, and quality of groundwater within the GMZ at Source Area 4. Source Area 4 is part of the Southeast Rockford Groundwater Contamination (SERGC) Superfund site, located in Rockford, Winnebago County, Illinois (**Figure 1**).

The GMZ sampling network currently includes 9 monitoring wells and three groundwater extraction wells for a total of 12 monitoring points. The GMZ boundaries and current monitoring well network are shown on **Figure 2**. The GMZ application prepared by CDM Smith is dated December 4, 2009 and was approved by Illinois EPA on December 16, 2010.

The establishment of the GMZ for Area 4 was part of the leachate component remedy identified in the Operable Unit 3 (OU3, or Source Control Operable Unit [SCOU]) Record of Decision (ROD). The OU3 ROD specifies remedies for “leachate” (i.e., shallow, contaminated groundwater within the general boundaries of the source area) and soil. Under contract to Illinois EPA, the leachate component remedial action (RA) construction was completed in 2010 and the system is summarized in Section 1.1. The soil component RA was completed in 2017 and is summarized in Section 1.2.

The leachate control system described in Section 1.1 began operation immediately after the baseline sampling event on December 2009 and was followed by quarterly groundwater monitoring for two years. In 2012, the quarterly monitoring was adjusted to semiannual because the treatment system achieved a relatively steady state condition after two years. This report includes information from the two semiannual sampling events conducted during 2017 and discusses long-term changes since the baseline sampling in 2009. The report also summarizes the methods and procedures used during the monitoring events, presents the data for the groundwater elevation measurements, and discusses analytical results for 2017.

### 1.1 Leachate Control System Summary

From August through December 2009, the leachate control system components were installed and tested. The system treats groundwater contaminated with chlorinated volatile organic compounds (VOC) including 1,1,1-trichloroethane (TCA), 1,1-dichloroethene (1,1-DCE), trichloroethene (TCE), and tetrachloroethene (PCE). The system began operation in December 2009 and was declared operational and functional on October 6, 2010. Construction of the system is described in *Interim Leachate Component Remedial Action Completion Report, Source Area 4, Southeast Rockford Groundwater Contamination Superfund Site*, dated February 2011. Bodine Environment Services constructed the system, and currently operates and maintains it system under contract to Illinois EPA.

Leachate is extracted at a rate of approximately 60 gallons per minute (gpm) through a series of three extraction wells (EW001, EW002, and EW003), submersible pumps, piping, and controls.

The treatment train consists of an oil-water separator, air stripper, bag filters, and separate carbon units for the liquid and vapor effluent streams. The liquid effluent is discharged on-site to a storm water ditch and the vapor effluent is discharged to the air. The vapor phase carbon unit was by-passed after about a year of operation because the total VOC contaminant mass entering the system was well below the permit equivalency-required discharge limit of 8 pounds per hour. Effluent is monitored monthly for VOCs to confirm the leachate is treated to acceptable levels. No exceedances have been observed from the effluent discharge.

After the system had been in operation for a few weeks after start-up, it became apparent that iron-related bacteria (IRB) were degrading system performance. This decrease in system performance was caused by iron fouling of EW003, which extracts the most contaminated groundwater, and iron fouling of the lead liquid phase carbon vessel. In order to control the formation of iron slime in the system, an anti-scalent and microbicide are injected into extraction well EW003 during warmer months (approximately March to November) and year-round into the influent process line as it enters the treatment unit. Addition of the chemicals directly into EW003 is not thought to impact contaminant concentrations. When the chemicals are not injected into EW003 during the winter, iron slime forms on the extraction well pump resulting in a gradual pumping rate loss that was historically about a 1 gallon per week decrease. Subsequently, the pump in EW003 needs to be removed and cleaned about once per year. Problems with IRB in extraction well EW002 are less severe, but the pump does require cleaning every several years. The extraction well screens and piping between the extraction wells and treatment system also require occasional cleaning. Very recently, the rate of flow loss seems to have slowed (i.e., the flow rate has not decreased as rapidly during the winter of 2017-2018), which may be related to the completion of the soil component RA.

Although all three extraction wells are currently operating, at various times different extraction wells have been shut off. From 2012 to 2016, extraction well EW001 was turned off because it extracts the least contaminated groundwater. This allowed extraction well EW003, which extracts the most contaminated groundwater, to pump at a higher flow rate. During the soil RA in 2016, various pumping configurations were used as described in Section 1.2. Since the completion of the soil RA, the system has been operating as designed with all three extraction wells usually operating, with individual wells only taken offline for maintenance.

The original GMZ sampling network included 7 monitoring wells, 1 multi-port well with five ports, and 3 groundwater extraction wells for a total of 15 monitoring points. The following changes to the network have occurred since GMZ monitoring started:

- Monitoring well MW-403A was added to the network in 2013 at the request of the U.S. Environmental Protection Agency (USEPA) to confirm that contaminated groundwater was not bypassing the leachate control system to the south of extraction well EW003.
- Multi-port well MLW01 was abandoned in August 2016 as part of the soil RA as discussed in Section 1.2.
- Monitoring well MW-408A was installed in May 2017 several feet from the location of the former multi-level well. Originally installed to assist with confirming the completion of the soil RA, it was sampled as part of the GMZ network during both semiannual events in 2017.

## 1.2 Soil Component Remedy

In accordance with the Explanation of Significant Differences (ESD) signed on July 27, 2012, the soil component remedy was modified to electrical resistance heating (ERH). The ERH RA installation began in July 2016 and treatment was deemed complete in February 2017. Following demobilization and preparation of the RA completion report, the USEPA approved the RA completion report and considered the Area 4 soil component complete on December 13, 2017. The soil component RA is documented in *Soil Component Remedial Action Completion Report, Source Area 4, Southeast Rockford Groundwater Contamination Superfund Site* dated December 2017. Several soil component RA activities that relate directly to the leachate component remedy and GMZ monitoring are described below.

In August 2016, multi-level well MLW01 was abandoned during ERH system installation. MLW01 was abandoned because its location within the thermal treatment zone would have resulted in damage to the well. The multi-level well was abandoned by grouting from the bottom of the well to the top of the casing. After the well was grouted, the sub-contractor over-drilled the well to approximately 10 feet below ground surface. Once the well was over-drilled, concrete was poured into the vault up to existing ground surface.

The ERH system began operating in October 2016 and operated until February 2017. During operation, process wastewater from the ERH system was routed to the leachate treatment system for treatment prior to discharge. However, during the operation of the ERH system the presence of sulfate-reducing bacteria (SRB) in the process wastewater being discharged to treatment system caused several issues including SRB material accumulation in the treatment system oil-water separator, clogged bag filters, and “crust” formation in the lead carbon vessel. Modifications were made to the ERH system and different pumping configurations of EW001, EW002, and EW003 were used to limit the amount of SRB being discharged to the treatment system.

Following the completion of confirmation sampling, CDM Smith and drillers GSG Consultants, Inc. installed monitoring well MW-408A on May 19, 2017 to replace the upper-most sample port of abandoned multi-port well MLW01. Although a replacement well was not originally planned as part of the soil component RA, initial issues related to achieving performance standards for PCE in the deeper portions (i.e., sample intervals at 32 and 37 feet bgs) of the thermal treatment zone (TTZ) caused CDM Smith to recommend installation of the replacement well to monitor PCE in groundwater within the TTZ. However, MW-408A is not a direct replacement for MLW01 because MW-408A is screened from 30 to 40 feet bgs and the upper-most port in MLW01 was screened from 30 to 35 feet bgs.

However, the rationale for the replacement well was two-fold. First, to support the soil component RA confirmation if necessary, as already stated, but also to replace MLW01 for what was hoped to be a relatively short time prior to being able to terminate the GMZ based on the assumed completion of soil component RA.

Although installation of MW-408A was not specifically included in the Area 4 ERH QAPP, field activities and well installation was conducted following procedures and standards from previously approved Area 4 QAPPs, with one exception discussed below. The MW-408A borehole was drilled using hollow stem auger and sampled with split-spoons. Because of CDM Smith’s

knowledge and experience with the site, the boring was blind drilled to 30 feet below ground surface (bgs) and continuous split-spoon intervals were obtained from 30 to 40 feet bgs to record conditions within the proposed well screen interval.

CDM Smith's geologist documented the subsurface materials and field screened the soils for impacts using a photoionization detector (PID). The 30- to 40-foot interval is silty, fine- to medium-grain sand with a faint chemical odor and maximum PID reading of 6 parts per million (ppm). A 2-inch diameter polyvinyl chloride PVC well with a 10-foot long, schedule 40 screen was installed. Well MW-408A was developed on May 23, 2017 by pump and surge method. Approximately 50 gallons of water was purged from the well and the final turbidity was 45 nephelometric turbidity units (NTU).

MW-408A was eventually surveyed in February 2018. The well installation exception mentioned above refers to the fact that MW-408A was surveyed using surrounding monitoring wells as benchmarks instead of a government-established benchmark. Because groundwater measurements from MW-408A will only be used to generate groundwater flow maps along with data from the surrounding monitoring wells, this exception should not have any impact on the quality of the data.

## Section 2

# Field Activities

The GMZ monitoring was conducted in accordance with the GMZ application and the Source Area 4 GMZ Monitoring Sampling and Analysis Plan (SAP) prepared by CDM Smith. **Table 1** provides a summary of the 2017 semiannual sampling dates and wells sampled for each event.

For the first semiannual event, all monitoring points were sampled on May 30, 2017. For the second semiannual event, all monitoring wells were sampled on November 14 and 15, 2017. Additionally, MW-408A was sampled for both events. This well was installed adjacent to the abandoned multilevel well to support the evaluation of the soil remedial action.

## 2.1 Groundwater Elevations

Groundwater elevation data was collected manually from all wells on the first day of each sampling event prior to sampling activities. For the standard monitoring wells, an electronic water level indicator was used and decontaminated between uses. Depth to water and groundwater elevation data are provided in **Table 2**.

Potentiometric surface maps were prepared from the groundwater elevation data collected during the baseline study and semiannual sampling events for 2017. Groundwater elevation data from five shallow water table wells were used to construct the potentiometric surface maps for the first semiannual event. This includes MW-22A, MW-32, MW-130A, MW-401A, MW-403A and MW-408A. However, data obtained from MW-408A was not used for preparing the first 2017 semiannual event as discussed in Section 3.1.

## 2.2 Sample Methods

The extraction wells were sampled from the tap on the waterlines that run to the treatment system. The remaining monitoring wells were each purged using a submersible pump with pump controller capable of operating at low-flow purging rates. All wells were purged and sampled in accordance with the SAP. Except for the extraction wells, all wells were purged and sampled using low-flow methodology.

For all wells sampled except the extraction wells, field measurements of pH, temperature, specific conductance, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were monitored to identify the point stabilization was observed during purging. Parameter readings were recorded at five-minute intervals and purging continued until field parameters were observed to be within stable range (as provided below) for three consecutive readings.

- pH,  $\pm 0.25$  standard units
- dissolved oxygen,  $\pm 10$  percent
- specific conductance,  $\pm 50 \mu\text{mhos}/\text{cm}$

- turbidity, less than 5 NTUs or  $\pm 10$  percent
- temperature,  $\pm 5^\circ \text{C}$
- ORP potential,  $\pm 10 \text{ mV}$

Final readings taken prior to sampling are provided in **Table 3** and original data sheets listing all readings recorded during purging are provided in **Appendix A**.

Quality control samples collected for each of the semiannual sampling events included one field duplicate per 10 or fewer investigative samples, one field blank per 10 or fewer investigative samples collected using non-dedicated equipment, one trip blank for each cooler shipped containing aqueous samples for VOC analysis, and one matrix spike/matrix spike duplicate MS/MSD per 20 or fewer samples.

Field instruments were calibrated daily to the appropriate standards in accordance with the SAP. New or dedicated sample tubing was used for each discrete sampling location. The groundwater sample was collected directly from the pump discharge tubing into pre-preserved sample containers provided by a local laboratory.

## 2.3 Analytical methods

Groundwater samples were analyzed through the USEPA Contract Laboratory Program (CLP) for trace or low/medium volatile organics under SOM02.4 (October 2016). Analytical results were subsequently validated by USEPA Region 5's Environmental Services Assistance Team (ESAT) contractor. Level 4 Validation was conducted according to the January 2017 National Functional Guidelines (NFG) for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region V Organic CLP Validation standard operating procedure. The validation included a review of holding times; instrument tuning and performance; internal standards; initial and continuing calibration; surrogate recoveries; laboratory, field, and trip blanks; field duplicates; MS/MSD; laboratory control samples; compound identification and quantitation; and reported detection limits.

## Section 3

# Results

This section presents the results of the two 2017 semiannual sampling events. The GMZ monitoring wells within, as well as upgradient and downgradient of the GMZ boundaries are used to determine the effectiveness of the extraction wells for containing the groundwater contamination. The samples were collected as specified in the SAP. The monitoring well sample concentrations were compared to the baseline results and the remediation goals established in the ROD.

### 3.1 Hydraulic Results

Groundwater elevation measurements were collected for the two semiannual GMZ monitoring events in 2017. **Table 2** presents the dates of data collection and the water elevations measured for the baseline and 2017 events. Potentiometric surface maps are presented for the baseline event in **Figure 3**, and the two 2017 semiannual events in **Figures 4 and 5**. Water elevation data from new monitoring well MW-408A was not used to generate the first 2017 semiannual potentiometric surface map because the apparent groundwater elevation is clearly suspect as can be seen in Table 2. It is believed that the anomalous groundwater elevation is because the well had been developed only one week before the depth to water measurement was taken and the water level in the well had yet to equilibrate.

For both semiannual events, groundwater flow direction continues to the northwest with slight variations in flow direction in the downgradient portion of the network that is likely the result of contouring irregularities caused by a paucity of monitoring locations.

Hydraulic gradients are estimated across the site using groundwater elevation data from MW-32 as the upgradient location and MW-401A as the downgradient location. Under either non-pumping or pumping conditions, the hydraulic gradient is relatively flat and the gradient difference between non-pumping and pumping conditions is minimal. The hydraulic gradient observed during the baseline event was 0.002565 feet per foot (ft/ft).

The gradient calculated from the first semiannual 2017 GMZ monitoring event groundwater elevations is 0.001983 ft/ft. This gradient is slightly greater than that observed during the 2015 and 2016 GMZ monitoring events and slightly less than what was observed during the baseline and 2013 and 2014 events. The gradient calculated from the second semiannual 2017 GMZ monitoring event groundwater elevations is 0.002921 ft/ft. This gradient is slightly greater than the 2016 observed gradient and similar to the baseline gradient.

### 3.2 Laboratory Analytical Results

The GMZ monitoring investigative samples and associated QC samples were analyzed through the USEPA CLP and validated by USEPA Region 5's ESAT contractor. Overall, the validation determined that data from both sampling events are usable with qualifications. The CLP data

package narrative and sample summary report for both sampling events are provided in **Appendix B**

The laboratory analytical results were compared to the remediation goals (RG) from the OU3 ROD, Groundwater Quality Standards for Class I: Potable Resource Groundwater from 35 IAC 620.410, or the Illinois EPA Tiered Approach to Correction Action Objectives (TACO) Class I Groundwater Remediation Objective (GRO) from 35 IAC 742. For convenience, all are referred to as RGs. However, the TACO GROs that are not also Class I standards are not applicable or relevant and appropriate requirements listed in the ROD for the site, but are federal and state non-promulgated criteria, advisories, and guidance that are requirements to be considered.

**Table 4** provides a summary of the VOCs that were detected in at least one sample collected during the baseline or 2017 semiannual groundwater sampling events. **Table 5** provides a comprehensive list of VOCs that have been detected in each well since the baseline sampling event. In this table, the VOCs listed were detected at least once in the listed well since the baseline sampling event.

### 3.2.1 1st Semiannual 2017 VOCs Exceeding RGs

During the first semiannual sampling event in May 2017, all GMZ wells were sampled as was MW-408A. Bromodichloromethane was detected over the RG of 0.2 µg/L in the sample and field duplicate collected from background well MW-32, and 1,1-dichloroethene was detected just above the RG of 7 µg/L in the sample collected from extraction well EW003.

### 3.2.2 2nd Semiannual 2017 VOCs Exceeding RGs

During the second semiannual sampling event in November 2017, all the GMZ wells were sampled as well as MW-408A. Bromodichloromethane was detected above the RG in the sample collected from MW-32.

Benzene is reported as detected in samples collected from six monitoring wells. Although none of the samples contained benzene at a concentration that exceeds its RG, the concentration in several samples is close enough to the RG that some discussion of benzene in groundwater at Area 4 is warranted.

Benzene was detected by the laboratory in most samples, including the field blank, but was qualified as undetected in four samples based on its concentration in the field blank as described in the data package narrative in Appendix B. However, that still leaves the samples from six monitoring wells mentioned above as apparent detections of benzene in groundwater. It is believed that the source of this low-level contamination is an inadequately decontaminated pump as only samples collected through the pump, which includes the field blank, contained detectable concentrations of benzene. In addition, benzene has not been detected during any previous GMZ sampling event which would make its sudden appearance in multiple monitoring wells across the site at similar concentrations rather unlikely.

## Section 4

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### Conclusions

This report summarizes the information obtained during semiannual monitoring events for the year 2017 of GMZ monitoring at Source Area 4, Southeast Rockford Groundwater Contamination Site.

Groundwater levels were measured for the baseline event in 2009; quarterly during 2010 and 2011, and 2012; and semiannually during 2013 through 2017, except for 2015 where only one sampling event occurred. The leachate extraction system has been operational since December 2009 and after the baseline measurements, the hydraulic gradient increased slightly across the site due to the pumping of the extraction wells. The pumping rates of the extraction wells have been sufficient to keep the increased gradient fairly steady since then. The groundwater flow direction remained consistent for the two semiannual GMZ monitoring events in 2017 with only slight variations in the vicinity of the drainage ditch and extraction wells.

All three extraction wells EW001, EW002 and EW003 were operational during most of 2017 being taken offline only for short periods for maintenance and operational issues related to the soil component RA. Extraction well EW003 had a detection of 1,1-dichloroethene above the RG for the May 2017 groundwater sampling event and no exceedances in November 2017.

The compounds 1,1-DCE and TCE were found over the RG in several groundwater monitoring events at EW003 during the first two years of quarterly monitoring. The compound 1,1-DCE was just above the RG in the first semiannual event of 2017, but the concentrations of both compounds were under the RG in the second semiannual groundwater sampling event. EW003 also had TCA above the RG in all sampling events during the first three years of monitoring and the concentration was significantly higher than the RG during the first quarter of 2010 and 2011. However, the concentration of TCA in EW003 has decreased gradually after three years of leachate treatment system operation but slightly increased to above the RG in the second semiannual groundwater sampling event in 2016. The compound TCA was not detected above the RG for either semiannual sampling event in 2017.

The last samples collected from multi-port well MLW01 were in April 2016 before it was abandoned in August 2016. Samples collected from the deeper ports of multi-port well MLW01 (Ports A through D) have always had low-level VOC concentrations. However, samples collected from the upper-most port, Port E, have typically contained several VOCs at higher concentrations that exceed their respective RGs. Unfortunately, Port E malfunctioned and could not be sampled after 2013. Monitoring well MW-408A was installed as a water table well a few feet from the location of the former multi-level well, but with a different screened interval than the upper-most port of former MLW01. Although results from the former MLW01 Port E are not directly comparable to those from MW-408A, the significant decrease in contaminant concentrations is still remarkable and almost certainly the result of the soil component RA.

Monitoring well MW-401A, located just west of EW001, had detections of several VOCs above the RG during the baseline event. Once the system was operational, the concentrations of VOCs decreased significantly, and no VOCs have been detected above their RGs for any of the quarterly or semiannual monitoring events through 2017.

The downgradient wells MW-22A and B, are considered compliance wells for the GMZ. In both wells, no VOCs exceed their RG and the concentrations either decreased slightly or remained constant from the baseline through the 2017 semiannual groundwater sampling events.

The other two compliance wells, MW-130A and B, had no detections of VOCs that exceeded the RGs for both semiannual events in 2017. The only exceedance that MW-130B had since the baseline event was TCA in the first quarter of 2010. After that, the concentration has decreased gradually and remained below the RG. TCA and 1,1-DCE were two major contaminants found at MW-130A above their RGs from 2010 to the second quarter of 2011; however, both chemicals have decreased gradually over time. After the second quarter of 2011, neither chemical was detected over the RG and the concentrations in these wells did not show any significant changes over the year monitoring period.

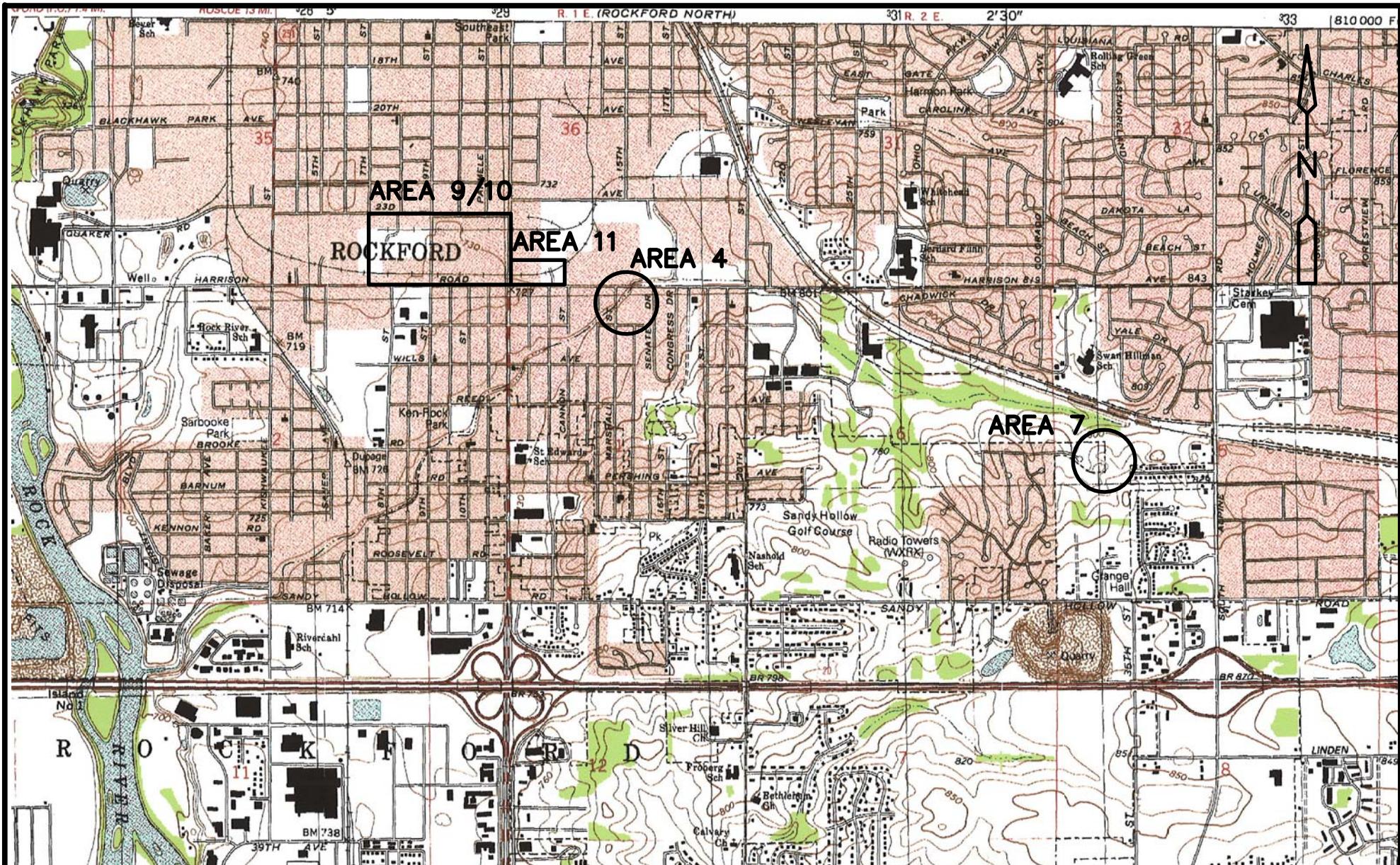
The trihalomethane (THM) bromodichloromethane has been detected above the RG in the samples collected from background well MW-32 for all 2014, 2015, 2016, and 2017 groundwater sampling events. During this same time, the THMs chloroform and dibromochloromethane have also been routinely detected, but at concentrations well below their respective RGs. As a group, these THMs, along with bromoform which has not been detected, are generally referred to as disinfection by-products that result from chlorine treatment of drinking water. Therefore, the source of these THMs is almost certainly a leaking potable water line. A variety of other VOCs have been detected in MW-32 at low concentrations since the start of GMZ sampling, including TCE at concentrations greater than its RG from 2009 to 2011, which is considered representative of background conditions of the overall SERGC site.

The remedy for the leachate component of the Area 4 RA was declared operational and functional (O&F) because contaminant concentrations in groundwater immediately downgradient of the groundwater extraction system have decreased (MW-401A and B) and the treatment of contaminated effluent is operating as designed. Also, contaminant concentrations in groundwater further downgradient of the groundwater extraction system have decreased (MW-130A and B), which indicates the system has been operating long enough to impact groundwater further downgradient.

Based on contaminant concentrations in groundwater samples collected during two sampling events from within and downgradient of Area 4 following completion of the Area 4 soil component RA, it appears that the soil contamination at Area 4 has been successfully remediated and is no longer acting as a source of groundwater contamination. CDM Smith recommends that one additional round of semiannual sampling be conducted in May 2018 as currently scheduled. Provided the groundwater contaminant concentrations from the May 2018 sampling event continue along the same low-level trend, Illinois EPA should consider completion of the Area 4 groundwater component RA, termination of the GMZ, and completion of the overall Area 4 RA.

## Figures

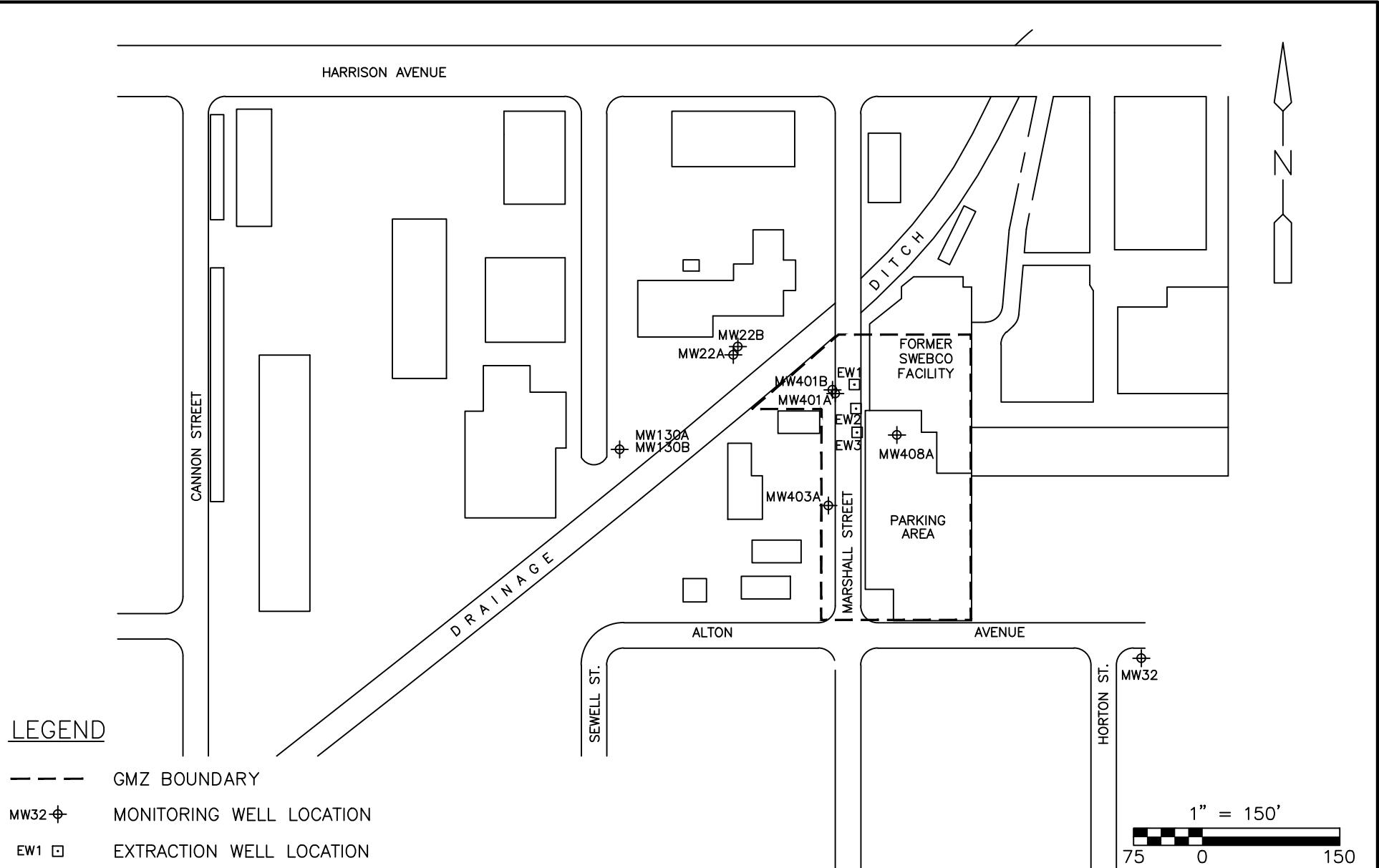
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SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE  
SOURCE CONTROL OPERABLE UNIT  
ROCKFORD, ILLINOIS

## AREA MAP

Figure No. 1



SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE  
SOURCE CONTROL OPERABLE UNIT  
ROCKFORD, ILLINOIS

AREA 4 VICINITY MAP

Figure No. 2



**Legend**

- Monitoring Well Location
- Baseline Groundwater Contour
- GMZ Boundary

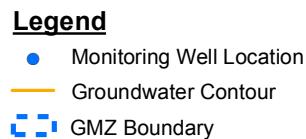
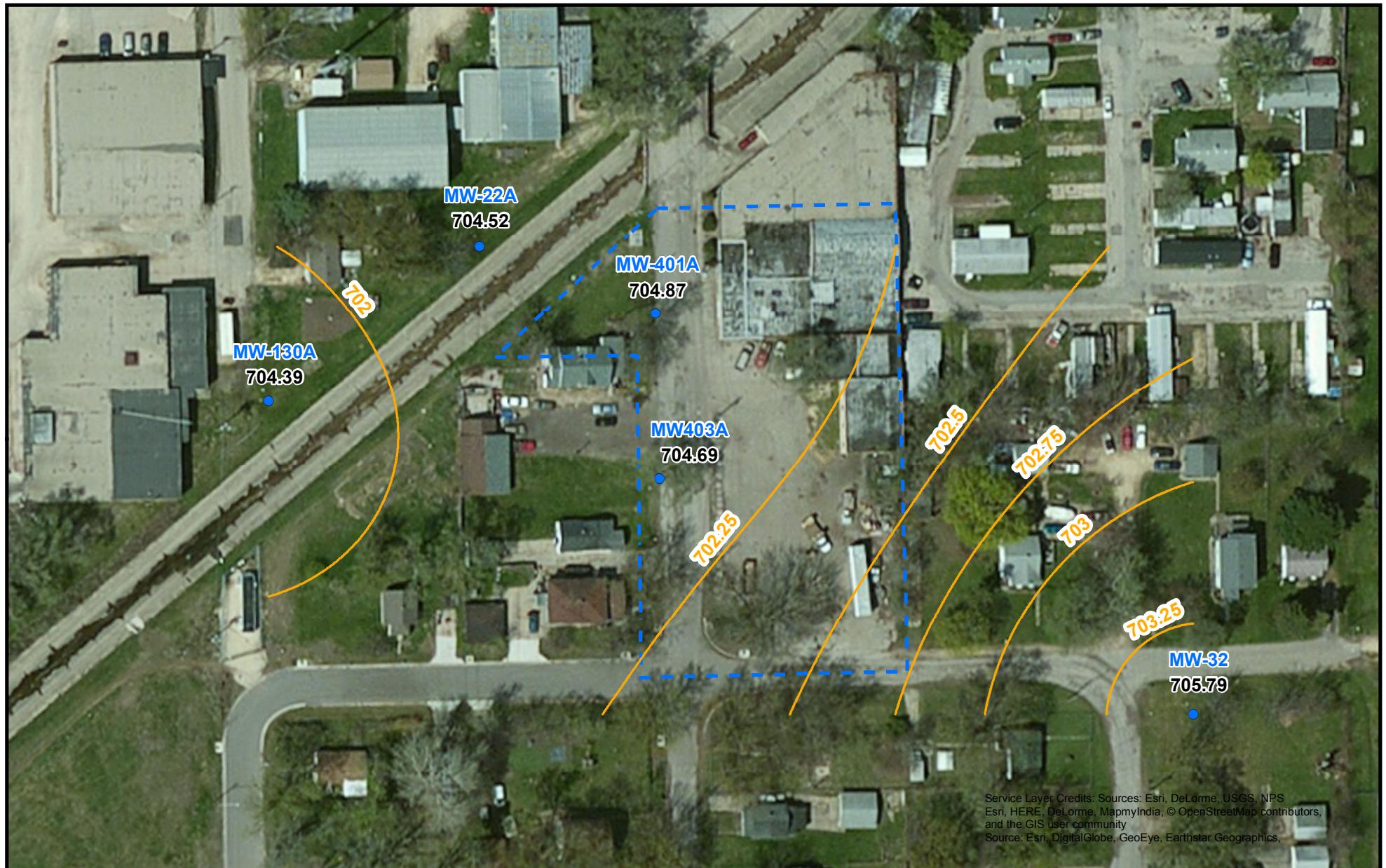
Southeast Rockford Groundwater Contamination Superfund Site  
Source Control Operable Unit  
Rockford, Illinois

**Area 4 Baseline Groundwater Potentiometric Surface**



0 20 40 80 Feet

Figure No. 3



Southeast Rockford Groundwater Contamination Superfund Site  
Source Control Operable Unit  
Rockford, Illinois  
Area 4: 05/30/2017 1st Semiannual  
Groundwater Potentiometric Surface Map

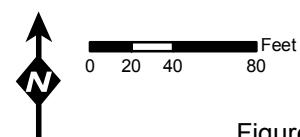
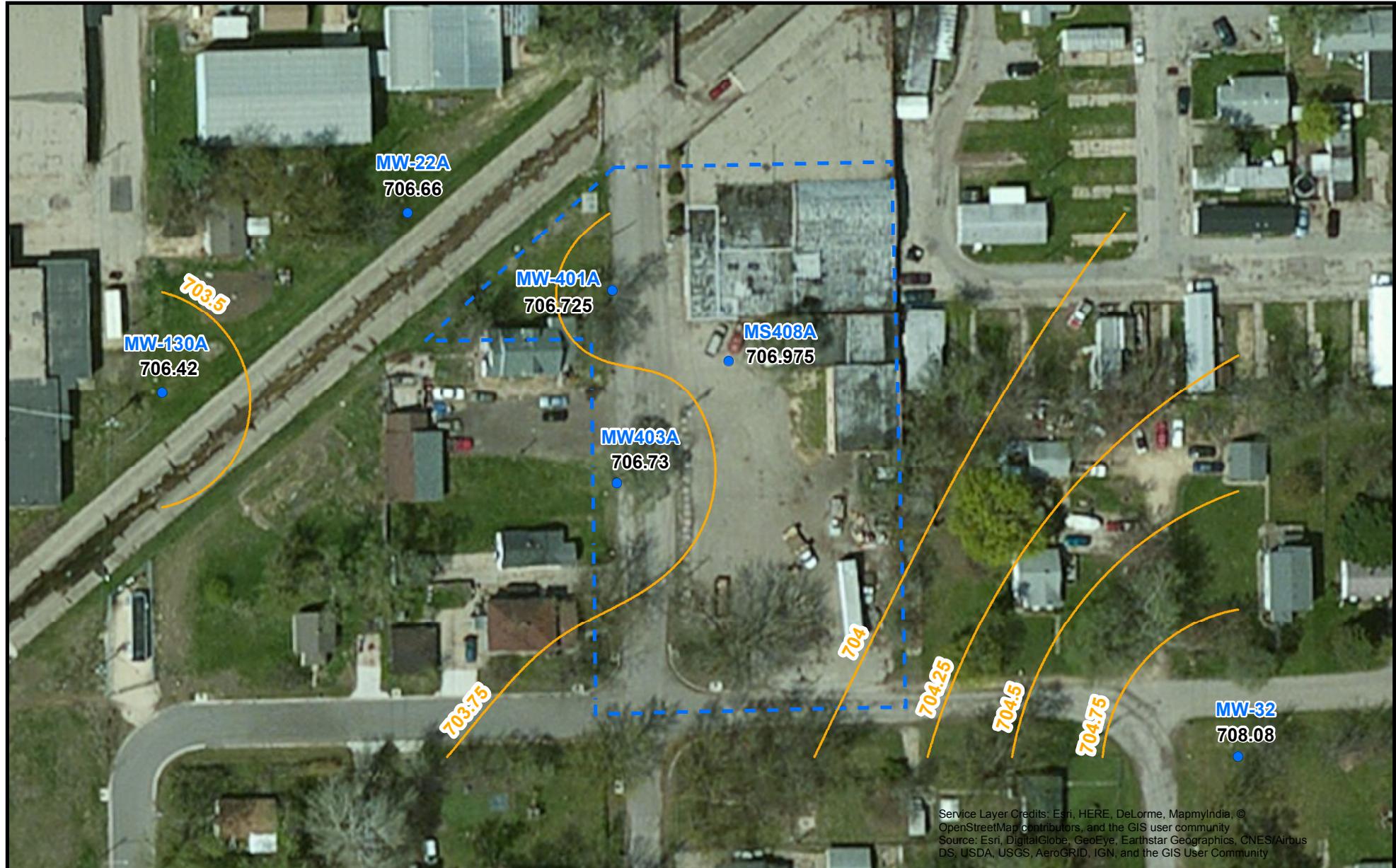


Figure No. 4



#### Legend

- Monitoring Well Location
- Groundwater Contour
- GMZ Boundary

#### Southeast Rockford Groundwater Contamination Superfund Site

Source Control Operable Unit

Rockford, Illinois

Area 4: 11/14/2017 2nd Semiannual  
Groundwater Potentiometric Surface Map



0 20 40 80 Feet

Figure No. 5

## Tables

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**Table 1**  
**Semiannual Sampling Dates**  
**Source Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

Sampling Event	Sampling Date	Samples	No Sample Collected
<b>1st Semiannual 2017</b>	5/30/2017	EW001, EW002, EW003, MW022A, MW022B, MW032, MW130A, MW130B, MW401A, MW401B, MW403, MW408A	NA
<b>2nd Semiannual 2017</b>	11/14/2017	EW001, EW002, EW003, MW-32, MW-401A, MW-401B MW-403	NA
<b>2nd Semiannual 2017</b>	11/15/2017	MW022A, MW022B, MW130A, MW130B, MW408A	NA

**Table 2**  
**Groundwater Elevations**  
**Source Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

Well ID	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)
	12/1/09 - Baseline		05/30/2017 - 1st Semiannual		11/14-15/2017 - 2nd Semiannual		
MW-22A	730.35	23.60	706.75	24.83	705.52	23.69	706.66
MW-22B	729.75	--	--	25.22	704.53	23.08	706.67
MW-32	733.84	25.60	708.24	28.05	705.79	25.76	708.08
MW-130A	728.04	21.50	706.54	23.65	704.39	21.62	706.42
MW-130B	727.52	--	--	23.23	704.29	21.14	706.38
MW-401A	730.35	23.30	707.05	25.48	704.87	23.625	706.725
MW-401B	730.34	--	--	25.44	704.90	23.56	706.78
MW-403A	730.95	--	--	26.26	704.69	24.22	706.73
MW-408A	735.18	--	--	33.50	701.68	28.205	706.975

**Notes:**

ft = feet

AMSL = above mean sea level

BTOC = below top of casing

**Table 3**  
**Stabilized Field Parameter Readings**  
**Source Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

Final Parametes Readings	Flowrate (mL/min)	Drawdown (ft.)	pH	Specific Cond. (mS/Cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Purged (Min.)
<b>05/30/2017 - 1st semiannual</b>									
MW408A	450	0.02	7.37	1.3	4.7	1.32	24.93	-6	45
MW22A	400	0.02	7.35	1.05	35.1	2.96	17.82	172	55
MW22B	400	0.02	8.07	1.28	6.0	2.09	15.19	31	65
MW32	300	0.01	7.27	1.26	0.9	3.53	14.78	61	40
MW130A	400	0.02	8.04	1.34	19.9	1.21	13.43	7	39
MW130B	500	0.05	7.25	1.21	8.6	2.18	14.82	138	47
MW401A	400	0.01	8.09	1.3	6.6	2.39	15.79	111	50
MW401B	400	0.01	7.22	1.23	8.9	3.69	15.11	158	55
MW403	400	0.01	7.94	1.06	4.2	2.75	23.52	77	35
<b>11/14/2017 - 11/15/2017 - 2nd semiannual</b>									
MW408A	400	0.035	7.22	1.11	20.1	7.13	15.78	-91	40
MW22A	400	0.01	6.86	0.934	22.0	5.69	11.49	190	50
MW22B	400	0.01	6.86	1.19	73.2	4.25	13.76	36	20
MW32	375	0.01	6.85	1.06	2.3	4.28	12.1	107	35
MW130A	400	0.07	6.99	1.06	24.7	3.14	14.14	7	35
MW130B	400	0.02	6.87	1.10	9.7	4.33	12.24	116	40
MW401A	375	0.01	7.1	1.05	190	3.99	12.96	151	45
MW401B	450	0.01	6.89	1.02	49.3	3.84	12.59	164	20
MW403	400	0.02	6.86	0.812	13.5	4.47	14.04	134	40

**Table 4**  
**Compounds Exceeding Remediation Goals**  
**Source Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location		E3Y53 A4-EW001 5/30/2017	E3Y77 A4-EW001 11/14/2017	E3Y54 A4-EW002 5/30/2017	E3Y75 A4-EW002 11/14/2017	E3Y55 A4-EW003 5/30/2017	E3Y76 A4-EW003 11/14/2017	E3Y57 A4-MW130A 5/30/2017	E3Y81 A4-MW130A 11/15/2017	E3Y58 A4-MW130B 5/30/2017	E3Y82 A4-MW130B 11/15/2017	E3Y59 A4-MW22A 5/30/2017	E3Y79 A4-MW22A 11/15/2017	E3Y60 A4-MW22B 5/30/2017	E3Y80 A4-MW22B 11/15/2017
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL
1,1,1-Trichloroethane	200	7.5	8	5.9	7.4	6.1	6.1	8.5	11	7.9	9.7	6.7	12	7.2	9
1,1-Dichloroethane	1,400	5.9J	8.7	12J	9.9	11	8.6	14J	17	13J	13	0.5U	0.5U	12J	10
1,1-Dichloroethene	7	1.6	1.3	6.1	1.7	7.1	5U	1.8	3.3	1.5	1.8	0.5U	0.5U	1.2	1.2
Acetone	6,300	5U	5U	5U	2.1I	10U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Benzene	5	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	1.9	0.5U	1.9	0.5U	0.64U	0.5U	0.9
Bromodichloromethane	0.2*	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Carbon Tetrachloride	5	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chloroform	70	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chloromethane	--	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene	70	1.7	1.7	1.9	2.1	2.3J	1.8J	2	2.1	2	2.1	0.5U	0.5U	1.8	1.9
Dibromochloromethane	140*	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Dichlorodifluoromethane (Freon 12)	1,400	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethyl Benzene	700	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Isopropyl Benzene	700	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Methylene Chloride	5	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.5U	0.24J	0.5U	0.27J	0.5U	0.5U	0.5U
Tetrachloroethene	5	0.42J	0.39J	0.63J	0.42J	5U	5U	0.45J	0.46J	0.43J	0.36J	0.5U	0.5U	0.4J	0.46J
Toluene	1,000	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.69	0.23J	0.57	0.58	0.5U	0.5U	0.56
trans-1,2-Dichloroethene	100	0.23J	0.22J	0.27J	0.27J	5U	5U	0.26J	0.35J	0.28J	0.3J	0.5U	0.5U	0.29J	0.3J
Trichloroethene	5	1.3	1.6	1.3	1.4	1.4J	1.5J	1.5	1.7	1.5	1.6	0.5U	0.5U	1.4	1.6
Trichlorofluoromethane (Freon 11)	--	0.5U	0.5U	0.5U	0.5U	5U	5U	0.5U	0.27J	0.25J	0.39J	0.5U	0.5U	0.3J	0.43J
Xylenes (total)	10,000	0.5U	0.5U	0.24J	0.5U	3.5J	1.6J	0.5U	0.26J	0.23J	0.85J	0.75J	0.5U	0.21J	0.5U

**Notes:**

All results in microgram per liter

Remediation goals from Record of Decision  
or Class I Groundwater Standard from  
35 IAC 620.410

Shaded result exceeds remediation goal

\* = Remediation goal from TACO (35 IAC 742)

U = Not detected above the reported limit

J = Estimated result

**Table 4**  
**Compounds Exceeding Remediation Goals**  
**Source Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location		E3Y61 A4-MW32	E3Y62 A4-MW32-D	E3Y70 A4-MW32	E3Y71 A4-MW32-D	E3Y63 A4-MW401A	E3Y73 A4-MW401A	E3Y64 A4-MW401B	E3Y74 A4-MW401B	E3Y65 A4-MW403	E3Y72 A4-MW403	E3Y66 A4-MW408A	E3Y68 A4-MW408A-D	E3Y83 A4-MW408A	E3Y84 A4-MW408A-D
Analyte Name	RG Sample Date	INITIAL 5/30/2017	INITIAL 5/30/2017	INITIAL 11/14/2017	INITIAL 11/14/2017	INITIAL 5/30/2017	INITIAL 11/14/2017	INITIAL 5/30/2017	INITIAL 11/14/2017	INITIAL 5/30/2017	INITIAL 11/14/2017	INITIAL 5/30/2017	INITIAL 5/30/2017	INITIAL 11/15/2017	INITIAL 11/15/2017
1,1,1-Trichloroethane	200	5.2	5.4	9	9.5	8.5	8.4	7	8.8	2	2.3	4.4J	4.6J	5U	5U
1,1-Dichloroethane	1,400	5.8J	9.3J	11	11	8.7J	10	13J	12	3.3J	2.1	8.9	9.6	9	8.5
1,1-Dichloroethene	7	0.99	1	1.8	1.8	1.5	1.4	1.4	1.6	1.1	0.4J	5U	5U	5U	5U
Acetone	6,300	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	10U	10U	10U	10U
Benzene	5	0.5U	0.5U	0.71U	0.7U	0.5U	4.4	0.5U	0.53U	0.5U	3	5U	5U	3.6J	3.3J
Bromodichloromethane	0.2*	0.95	0.99	0.41J	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Carbon Tetrachloride	5	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Chloroform	70	1.2	1.2	0.62	0.63	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Chloromethane	--	0.5U	0.5U	0.5U	0.18J	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
cis-1,2-Dichloroethene	70	2	2	2.5	2.5	1.8	2	2.1	2.4	0.58	0.46J	2J	2.1J	1.9J	1.8J
Dibromochloromethane	140*	0.72	0.71	0.27J	0.33J	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Dichlorodifluoromethane (Freon 12)	1,400	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Ethyl Benzene	700	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Isopropyl Benzene	700	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U
Methylene Chloride	5	0.5U	0.22J	0.5U	0.5U	0.23J	0.5U	0.25J	0.5U	0.22J	0.5U	5U	5U	5U	5U
Tetrachloroethene	5	0.59	0.61	0.65	0.65	0.35J	0.41J	0.45J	0.41J	0.25J	0.5U	5U	5U	5U	5U
Toluene	1,000	0.5U	0.5U	0.5U	0.5U	0.5U	0.53	0.5U	0.64	0.25J	0.55	5U	5U	5U	0.58J
trans-1,2-Dichloroethene	100	0.22J	0.24J	0.32J	0.3J	0.26J	0.3J	0.27J	0.36J	0.5U	0.5U	5U	5U	5U	5U
Trichloroethene	5	1.5	1.6	2.3	2.5	1.3	1.5	1.4	1.6	0.5U	0.22J	5U	5U	0.72J	0.68J
Trichlorofluoromethane (Freon 11)	--	0.5U	0.5U	0.5U	0.5U	0.5U	0.33J	0.23J	0.25J	0.5U	0.5U	5U	5U	5U	5U
Xylenes (total)	10,000	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.79J	0.5U	0.93J	0.27J	0.97J	5U	5U	5U

**Notes:**

All results in microgram per liter

Remediation goals from Record of Decision  
or Class I Groundwater Standard from  
35 IAC 620.410

Shaded result exceeds remediation goal

\* = Remediation goal from TACO (35 IAC 742)

U = Not detected above the reported limit

J = Estimated result

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WP2 A4-EW001 2/11/2010	E5279 A4-EW001 6/14/2010	E52L9 A4-EW001 7/20/2011	E52P7 A4-EW001 10/11/2011	E52R3 A4-EW001 1/11/2012	E3X98 A4-EW001 7/26/2012	E3Y53 A4-EW001 5/30/2017	E3Y77 A4-EW001 11/14/2017	
Analyte Name	RG								
1,1,1-Trichloroethane	200	34	15	14	8.9	7.9	14	7.5	8
1,1-Dichloroethane	1400	8.9	4.5	5.3	3.2J	4.2J	5.4	5.9J	8.7
1,1-Dichloroethene	7	0.5U	1.3	2J	5U	5U	1.6	1.3	
Benzene	5	0.5U	0.5U	0.41J	5U	5U	0.5U	0.5U	
cis-1,2-Dichloroethene	70	5.6	2.9	3.2J	5U	2.5J	2.4J	1.7	1.7
Tetrachloroethene	5	0.49J	0.35J	0.4J	5U	5U	0.51J	0.42J	0.39J
Toluene	1000	0.5U	0.5U	5U	3.1J	5.8	5U	0.5U	0.5U
trans-1,2-Dichloroethene	100	0.25J	0.5U	5U	5U	5U	0.23J	0.22J	
trans-1,3-Dichloropropene	--	0.5U	0.5U	5U	5U	5U	0.5U	0.5U	
Trichloroethene	5	3	1.7	2.1J	5U	1.2J	1.6J	1.3	1.6
Trichlorofluoromethane (Freon 11)	2100	0.14J	0.5U	5U	5U	5U	0.5U	0.5U	

EPA Sample ID Station Location Date	E3WP3 A4-EW002 2/11/2010	E5280 A4-EW002 6/14/2010	E52B0 A4-EW002 10/7/2010	E52F3 A4-EW002 1/12/2011	E52H5 A4-EW002 4/18/2011	E52M0 A4-EW002 7/19/2011	E52P8 A4-EW002 10/11/2011	E52R4 A4-EW002 1/11/2012	E3X99 A4-EW002 7/26/2012	E3XD9 A4-EW002 1/16/2013	E3XH8 A4-EW002 7/22/2013	E3XK7 A4-EW002 12/17/2013	E3XN6 A4-EW002 5/21/2014	E3XS1 A4-EW002 12/17/2014	E3XW0 A4-EW002 5/19/2015	E3XX8 A4-EW002 12/16/2014	E3Y54 A4-EW002 4/6/2016	E3Y75 A4-EW002 11/14/2017	
Analyte Name	RG																		
1,1,1-Trichloroethane	200	250D	93	280J	77	39	77	31	26	65	23	46D	32D	27D	64D	84D	73D	5.9	7.4
1,1-Dichloroethane	1400	14	7.9	15	7.4	7.1	9.1	4.8J	5.9	7.6	6	3.1	7.6	12	18D	11	12J	9.9	
1,1-Dichloroethene	7	4.7J	2.4J	5U	1.5J	5U	3.1J	5U	5U	5U	5U	7	0.29J	1.2	1.8	1.7	0.5U	6.1	1.7
1,4-Dichlorobenzene	75	0.5U	0.5U	5U	0.45J	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
1,4-Dioxane	7.7	NA	NA	8J	100R	100R	100R	100R	100R	100U	100U	NA	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	0.2*	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.57	0.43J	0.13J	0.5U	0.5U
cis-1,2-Dichloroethene	70	5.5J	3.5J	6	3.5J	4.2J	3.2J	5U	2.4J	2.3J	5U	1.2	0.43J	1.5	2.1	2.5J	1.5J	1.9	2.1
Dichlorodifluoromethane (Freon 12)	1400*	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.11J	0.5U	0.5U
Isopropyl Benzene	700	0.16J	0.22	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Tetrachloroethene	5	0.88	0.62	0.82J	0.58J	0.64J	5U	5U	0.62J	5U	5U	0.32J	0.5U	0.39J	0.59	0.44J	0.43J	0.63	0.42J
trans-1,2-Dichloroethene	100	0.24J	0.2J	5U	0.3J	5U	5U	5U	5U	5U	5U	0.5U	0.13J	0.34J	0.5U	0.17J	0.27J	0.27J	
Trichloroethene	5	3.3	1.8	3.6J	2.7J	2.8J	2.4J	5U	1.4J	1.8J	5U	0.94	0.25J	1.1	1.4	1.1	1.3	1.4	
Xylene (Total)	10,000	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.24J	0.5U	

EPA Sample ID Station Location Date	E3WP4 A4-EW003 2/11/2010	E5281 A4-EW003 6/14/2010	E52B1 A4-EW003 10/7/2010	E52F4 A4-EW003 1/12/2011	E52H6 A4-EW003 4/18/2011	E52M1 A4-EW003 7/19/2011	E52P9 A4-EW003 10/11/2011	E52R5 A4-EW003 1/11/2012	E3XA0 A4-EW003 7/26/2012	E3XE0 A4-EW003 1/16/2013	E3XH9 A4-EW003 7/22/2013	E3XK7 A4-EW003 12/17/2013	E3XN7 A4-EW003 5/21/2014	E3XS2 A4-EW003 12/16/2014	E3XW1 A4-EW003 5/19/2015	E3Y14 A4-EW003 10/3/2016	E3Y55 A4-EW003 5/30/2017	E3Y76 A4-EW003 11/14/2017	
Analyte Name	RG																		
1,1,1-Trichloroethane	200	2400D	910D	1500J	1900D	2900	1200	740	710	670D	260D	370D	310	190	52D	160	210D	6.1	6.1
1,1,2-Trichloroethane	5	8.6J	1.2	2.1J	1.2J	500U	10U	5U	10U	5U	5U	10U	5U	0.15J	5U	5U	5U	5U	
1,1-Dichloroethane	1400	130	41J	42	35	500U	23	13	22	15	13	22	30	19	8.4D	24	59	11	8.6
1,1-Dichloroethene	7	13U	45J	26	8.7J	81J	27	5U	10U	3.4J	5U	3.6J	10 U	5.4	3.2	5U	5U	7.1	

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WP7 A4-MLW01A 2/10/2010	E5284 A4-MLW01A 6/14/2010	E5284 A4-MLW01A 10/7/2010	E52F7 A4-MLW01A 1/12/2011	E52H9 A4-MLW01A 4/19/2011	E52Q2 A4-MLW01A 10/11/2011	E52Q8 A4-MLW01A 1/11/2012	E3XA7 A4-MLW01A 7/26/2012	E3XE2 A4-MLW01A 1/15/2013	E3XJ1 A4-MLW01A 7/22/2013	E3XL0 A4-MLW01A 12/17/2013	E3XM8 A4-MLW01A 5/21/2014	E3XR4 A4-MLW01A 12/16/2014	E3XT3 A4-MLW01A 5/21/2015	E3XY1 A4-MLW01A 4/5/2016		
Analyte Name	RG																
1,1,1-Trichloroethane	200	7.4	4.1	6.5	5.5	6.6	SU	4.5J	4.3J	3.9J	2.8	3.2	4.1	4.2J	3.7	3.6	
1,1-Dichloroethane	1400	8.6	4.3	6.9	6.7	5.9	3.2J	5.4	4.8J	5.1	4.5	4.7	5.6J	7	7.2	5.9	
1,1-Dichloroethene	7	0.5U	0.7	5U	1.5J	5U	SU	SU	SU	0.46J	0.31J	0.53	0.75	0.77	0.5U		
1,4-Dioxane	7.7	NA	NA	12J	100R	100R	100R	100R	100R	NA	NA	NA	NA	NA	NA		
Carbon Disulfide	700	0.5U	0.5U	5U	5U	5U	SU	SU	0.21J	SU	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
cis-1,2-Dichloroethene	70	9.6	2.8	4.5J	3.2J	3.7J	SU	3J	2.1J	SU	1.3	1.3	1.4	1.6	1.5	1.1	
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	5U	5U	2.9J	SU	SU	SU	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Tetrachloroethene	5	0.27J	0.5U	SU	0.23J	5U	SU	SU	0.3J	SU	0.5U	0.32J	0.3J	0.35J	0.23J	0.26J	
Toluene	1000	0.5U	0.5U	5U	5U	4.7J	SU	SU	SU	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
trans-1,2-Dichloroethene	100	0.24J	0.5U	SU	SU	SU	SU	SU	SU	0.5U	0.5U	0.1J	0.23J	0.5U	0.13J		
Trichloroethene	5	1.6	0.99	1.6J	SU	1.6J	SU	1.3J	1.1J	2.8J	0.72	0.67	0.75J	0.87	0.52	0.73	
Trichlorofluoromethane (Freon 11)	2100	0.17J	0.5U	SU	SU	SU	SU	SU	SU	0.5U	0.5U	0.17J	0.19J	0.5U	0.5U	0.5U	

EPA Sample ID Station Location Date	E3WP8 A4-MLW01B 2/10/2010	E5285 A4-MLW01B 6/14/2010	E5285 A4-MLW01B 10/7/2010	E52F8 A4-MLW01B 1/12/2011	E52J0 A4-MLW01B 4/19/2011	E52Q3 A4-MLW01B 10/11/2011	E52Q9 A4-MLW01B 1/11/2012	E3XA6 A4-MLW01B 7/26/2012	E3XE3 A4-MLW01B 1/15/2013	E3XJ2 A4-MLW01B 7/22/2013	E3XL1 A4-MLW01B 12/17/2013	E3XM9 A4-MLW01B 5/21/2014	E3XR5 A4-MLW01B 12/16/2014	E3XT4 A4-MLW01B 5/21/2015	E3XY2 A4-MLW01B 4/5/2016			
Analyte Name	RG																	
1,1,1-Trichloroethane	200	9	5.3	7.6	6.9	8.3	3.1J	3.9J	5	4.3J	3.4	4	5.3	5.8	5.4	6.1		
1,1-Dichloroethane	1400	8.4	4.1	6.5	4.9J	5.7	3J	3.8J	4.6J	4.4J	4.8	5.8	7.6J	10	9.9	7.9		
1,1-Dichloroethene	7	0.5U	0.95J	5U	1.3J	5U	SU	SU	SU	0.97	0.67	1.2	1.5	0.5U	0.5U			
cis-1,2-Dichloroethene	70	4.5	2.7J	4.7J	3.5J	4.4J	SU	2.1J	1.8J	SU	1.6	1.6	2.4	2.2	1.8			
Tetrachloroethene	5	0.54	0.32J	0.55J	0.54J	5U	SU	SU	SU	0.32J	0.51	0.51	0.59	0.39J	0.48J			
Toluene	1000	0.5U	0.5U	5U	5U	5U	SU	SU	SU	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U		
trans-1,2-Dichloroethene	100	0.24J	0.5U	SU	SU	SU	SU	SU	SU	0.5U	0.5U	0.13J	0.32J	0.21J	0.21J			
Trichloroethene	5	2.6	1.7	2.8J	2.5J	2.9J	SU	1.3J	1.4J	SU	0.82	0.5U	0.8	0.94	0.63	1.1		

EPA Sample ID Station Location Date	E3WP9 A4-MLW01C 2/10/2010	E5286 A4-MLW01C 6/15/2010	E52B6 A4-MLW01C 10/7/2010	E52F9 A4-MLW01C 1/12/2011	E52J1 A4-MLW01C 4/19/2011	E52Q4 A4-MLW01C 10/11/2011	E52R0 A4-MLW01C 1/11/2012	E3XA5 A4-MLW01C 7/26/2012	E3XE4 A4-MLW01C 1/15/2013	E3XJ3 A4-MLW01C 7/22/2013	E3XL2 A4-MLW01C 12/17/2013	E3XN2 A4-MLW01C 5/21/2014	E3XR6 A4-MLW01C 12/16/2014	E3XT5 A4-MLW01C 5/21/2015	E3XY3 A4-MLW01C 4/5/2016		
Analyte Name	RG																
1,1,1-Trichloroethane	200	9.2	5.1	7.9	6.8	8.7	2.7J	3J	5	5.5	3.4	4	5	5.6	5.5	6.6	
1,1-Dichloroethane	1400	8.9	4.3	6.6	5J	5.7	2.8J	3.3J	4.9J	5.5	4.7	5.8	6.9	9.4	10	8.1	
1,1-Dichloroethene	7	0.5U	1J	5U	1.4J	5U	SU	SU	SU	0.93	0.72	1.1	1.5	1.5	0.5U		
1,4-Dioxane	7.7	NA	NA	8.5J	100R	100R	100U	100R	100R	100UJ	NA	NA	NA	NA	NA		
cis-1,2-Dichloroethene	70	4.6	2.8J	4.7J	3.3J	4.2J	SU	1.7J	2.2J	2.1J	1.5	1.8	1.5	2.1	2.2	1.9	
Tetrachloroethene	5	0.5	0.42J	0.57J	0.5J	SU	SU	SU	0.56J	SU	0.34J	0.47J	0.49J	0.55	0.39J	0.42J	
Toluene	1000	0.5U	0.5U	5U	5U	5U	SU	SU	SU</								

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WQ1 A4-MLW01E 2/10/2010	E5288 A4-MLW01E 6/15/2010	E5288 A4-MLW01E 10/7/2010	E52G1 A4-MLW01E 1/12/2011	E52J3 A4-MLW01E 4/19/2011	E52Q6 A4-MLW01E 10/11/2011	E52R2 A4-MLW01E 1/11/2012	E3XA3 A4-MLW01E 7/26/2012	E3XE6 A4-MLW01E 1/15/2013	E3XL4 A4-MLW01E 12/17/2013	
Analyte Name	RG	2300D	1800D	840J	1200D	300	180	200	920D	4200D	5700
1,1,1-Trichloroethane	200	2300D	1800D	840J	1200D	300	180	200	920D	4200D	5700
1,1-Dichloroethane	1400	57	81J	38	36	32	16	25	16	170	250U
1,1-Dichloroethene	7	19J	92J	15	6.8J	5.3J	5U	5U	7.4	25J	250U
1,2-Dichlorobenzene	600	2.5U	0.49J	0.93J	10U	25U	5U	5U	5U	25U	250U
1,4-Dioxane	7.7	NA	NA	5.3J	200R	500R	100U	100R	100R	500U	5000R
2-Butanone	4200	25U	11J	4J	20U	7.8J	10U	10U	10U	50U	500U
Acetone	6300	25U	800U	20U	50U	31	10U	10U	50U	500U	500U
cis-1,2-Dichloroethene	70	20J	33J	15	10	16J	11	28	14	16J	250U
Dichlorodifluoromethane (Freon 12)	1400	5.2	80U	5U	10U	25U	5U	5U	5U	25U	250U
Ethyl Benzene	700	10	9.4	15	11	10J	4.6J	14	8.4	14J	250U
Isopropyl Benzene	700	6.7	5.1	9.7	8.9J	7.7J	3.6J	8.4	9.6	25U	250U
Methyl Acetate	--	2.5U	20J	5U	10U	25U	71	180	8.2	50U	250U
Methylcyclohexane	--	0.64J	0.5UJ	1.2J	0.89J	25U	5U	5U	0.77J	25U	250U
Tetrachloroethene	5	22	16	30	25	18J	6.2	3.7J	9	25U	250U
Toluene	1000	2.5U	0.92	0.71J	1.7J	25U	3.9J	5.5	1.5J	25U	250U
Trichloroethene	5	3.3	1.5	2.5J	4.5J	25U	5U	5U	3J	12J	250U
Xylene (Total)	10,000	49	53J	61	48	46J	22.4	60	49	78	250U

EPA Sample ID Station Location Date	E3WN4 A4-MW022A 11/11/2009	E3WQ2 A4-MW022A 2/11/2010	E5289 A4-MW022A 6/14/2010	E52B9 A4-MW022A 10/7/2010	E52C0 A4-MW022A-D 10/7/2010	E52G2 A4-MW022A 1/13/2011	E52G3 A4-MW022A-D 1/13/2011	E52J6 A4-MW022A 4/18/2011	E52J7 A4-MW022A-D 4/18/2011	E52M3 A4-MW022A 7/19/2011	E52Q7 A4-MW022A 10/11/2011	E52Q1 A4-MW022A 1/10/2012	E3XA8 A4-MW022A 7/25/2012	E3XF0 A4-MW022A 1/15/2013	E3XJ6 A4-MW022A 7/22/2013	E3XL8 A4-MW022A 12/18/2013	E3XN9 A4-MW022A 5/21/2014	E3XS4 A4-MW022A 12/16/2014	E3XW3 A4-MW022A 5/20/2015	E3XY9 A4-MW022A 4/6/2016	E3Y16 A4-MW022A 10/3/2016	E3Y59 A4-MW022A 5/30/2017	
Analyte Name	RG (ug/L)																						
1,1,1-Trichloroethane	200	99D	47	48	48	35	33	33	26	15	20	15	13	9.3	4.9	6.1	4.1	3.8	2.1	4.6	0.69	6.7	
1,1-Dichloroethane	1400	4.6	2.8	1.3	1.4J	1.5J	2.4J	2.1J	1J	0.95J	5U	5U	5U	5U	0.52	0.64	0.12J	0.5U	0.65	0.58	0.5U	0.5U	
1,1-Dichloroethene	7	3.3J	0.5U	1	5U	5U	1.5J	1.4J	5U	1.3J	5U	5U	5U	5U	0.77	0.5U	0.5U	0.17J	0.5U	0.5U	0.5U	0.5U	
Acetone	6300	10U	5U	5U	10U	10U	20U	20U	20U	24	10U	10U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Chloroethane	--	0.043J	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
cis-1,2-Dichloroethene	70	2.3J	1.5	0.77	0.89J	0.85J	1.8J	1.6J	0.7J	0.8J	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.92	0.5U	0.5U	0.5U	
m,p-Xylene	10,000+	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	10U	10U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.52	
Methylene Chloride	5**	0.5U	1.0U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.4J	0.29J	0.5U	0.54U	0.5U	0.5U	0.5U	0.27J	
o-Xylene	10,000+	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.23J	
Tetrachloroethene	5	0.29J	0.23J	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.62J	5U	5U	5U	0.22J	0.057J	0.5U	0.5U	0.5U
Toluene	1000	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	1.1J	5U	0.5U	0.25J	1.1U	0.5U
trans-1,2-Dichloroethene	100	0.5U	0.097J	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.83J	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U
Trichloroethene	5	1.6	1.3J	0.73	0.66J	0.66J	5U	5U	5U	0.83J	0.82J	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.11J

EPA Sample ID Station Location Date	E3Y82 A4-MW022A 11/15/2017
Analyte Name	RG (ug/L)



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**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WN3 A4-MW022B 11/11/2009	E5290 A4-MW022B 6/14/2010	E52C1 A4-MW022B 10/6/2010	E52G4 A4-MW022B 1/13/2011	E52J8 A4-MW022B 4/18/2011	E52M4 A4-MW022B 7/19/2011	E52Q8 A4-MW022B 10/11/2011	E52Q9 A4-MW022B 10/11/2011	E52Q0 A4-MW022B 1/10/2012	E3XA9 A4-MW022B 7/25/2012	E3XB0 A4-MW022B 7/25/2012	E3XF1 A4-MW22B 1/15/2013	E3XJ7 A4-MW022B 7/22/2013	E3XL9 A4-MW022B 12/18/2013	E3XO1 A4-MW022B 12/18/2013	E3XS5 A4-MW022B 5/21/2014	E3XW4 A4-MW022B 5/20/2015	E3XZ0 A4-MW022B 4/6/2016	E3Y17 A4-MW022B 10/3/2016	E3Y60 A4-MW022B 5/30/2017	E3Y80 A4-MW022B 11/15/2017		
Analyte Name	RG																						
1,1,1-Trichloroethane	200	12J	5	7.7	6.4	6.7	4.4J	2.7J	2.9J	5.1	6	5.8	5.4	4	4.4	6.6	7	7.5	8.5	7.6	7.2	9	
1,1-Dichloroethane	1400	9.9	4	7.6	6.4	5.9	5.4	3.7J	3.8J	6.6	6.9	7	8	6.9	6.1	8.6	9.8	11	9.6	9.5	12J	10	
1,1-Dichloroethene	7	0.5U	1	5U	1.5J	1.5J	5U	5U	5U	5U	5U	5U	5U	0.98	0.72	0.95	1.5	1.4	0.5U	1.6	1.2	1.2	
1,4-Dioxane	7.7	NA	NA	8.9J	100R	100R	100R	100U	100U	100R	100R	100UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	6300	5U	20U	20U	20U	20U	24J	20	10U	10U	20U	10U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	
Benzene	5	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.9	
cis-1,2-Dichloroethene	70	12	3.1	5.4	3.7J	3.6J	2.8J	5U	5U	3.3J	2.6J	2.8J	2.2J	1.8	1.6	1.8	2.1	2.4	1.9	1.8	1.8	1.9	
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	5.9	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.13J	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Tetrachloroethene	5	0.49J	0.3J	5U	0.31J	0.61J	0.32J	5U	5U	5U	5U	5U	0.51J	5U	0.3J	0.55	0.4J	0.44J	0.38J	0.43J	0.37J	0.4J	0.46J
Toluene	1000	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.92J	0.91J	5U	0.5U	0.58	0.5U	0.5U	0.5U	0.5U	0.5U	0.56	
trans-1,2-Dichloroethene	100	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.21J	0.39J	0.3J	0.29J	0.29J	0.3J	0.3J	0.3J	
Trichloroethene	5	3.7	1.4	2.2J	5U	1.7J	1.2J	5U	5U	1.2J	1.2J	5U	0.85	0.74	1	1.3	0.95	1.5	1.2	1.4	1.6	1.6	
Trichlorofluoromethane (Freon 11)	2100	0.5UJ	0.5U	5U	0.25J	5U	5U	5U	5U	5U	0.71J	0.72J	5U	0.5U	0.5U	0.54	0.5J	0.35J	0.31J	0.4J	0.3J	0.43J	
Xylene (Total)	10,000	0.5U	0.5U	5U	5U	5U	0.15J	5U	5U	5U	0.28J	5U	0.22J	1.34	0.5U	0.5U	0.66	0.5U	0.21J	0.5U	0.21J	0.5U	

EPA Sample ID Station Location Date	E3WN5 A4-MW032 11/10/2009	E3WQ3 A4-MW032 2/10/2010	E5291 A4-MW032 6/14/2010	E52C4 A4-MW032 10/6/2010	E52G5 A4-MW032 1/12/2011	E52J9 A4-MW032 4/18/2011	E52M5 A4-MW032 7/19/2011	E52R0 A4-MW032 10/11/2011	E52P7 A4-MW032 1/10/2012	E3XB1 A4-MW32 7/25/2012	E3XF2 A4-MW32 1/15/2013	E3XF3 A4-MW32 1/15/2013	E3XK1 A4-MW32 7/22/2013	E3XK2 A4-MW32 7/22/2013	E3XM0 A4-MW32 7/22/2013	E3XM1 A4-MW32 12/17/2013	E3XO6 A4-MW32 12/17/2013	E3XR1 A4-MW32 5/21/2014	E3XR2 A4-MW32 12/16/2014	E3XT0 A4-MW32 5/19/2015	E3XT1 A4-MW32-D 5/19/2015	E3XZ1 A4-MW32 4/5/2016	
Analyte Name	RG																						
1,1,1-Trichloroethane	200	22D	17	11	16	14	15	8.3	7.2	8.4	8.5	9.1	9.1	4.5	4.7	5.5	5.4J	5.1	5.3	6.2	5.6	5.3	4.8
1,1-Dichloroethane	1400	18	17	9.3	16	13	12	7.5	6.7	7.8	8.8	12	12	6.7	6.6	5.5	5.5	5.6	7.5	8	8.4	8.4	5.8
1,1-Dichloroethene	7	5.1J	1.6	2.6	5U	3.7J	1.7J	5U	5U	5U	5U	5U	0.6	0.55	0.68	0.72	0.79	1.1	1.1	1.2	0.99	0.5U	
Acetone	6300	5U	5U	20U	20U	20U	20U	22	10U	10U	10U	10U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	
Bromodichloromethane	0.2*	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.16J	5U	0.5U	0.5U	0.5U	0.34J	0.74	0.86	0.99	0.94	1.8
Carbon Disulfide	700	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Chloroform	70	0.5U	0.21J	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.22J	0.5U	0.64	1.4	1.5	2.1	2.2
Chloromethane	--	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
cis	70	36D	8.9	5.9	11	8.7	10	7.3	4.3J	7.1	3.8J	3.8J	2.2	1.9	1.6	1							

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WN6 A4-MW130A 11/11/2009	E3WQ4 A4-MW130A 2/11/2010	E5292 A4-MW130A 6/15/2010	E52C2 A4-MW130A 10/7/2010	E52G6 A4-MW130A 1/13/2011	E52K1 A4-MW130A 4/18/2011	E52M6 A4-MW130A 7/19/2011	E52R1 A4-MW130A 10/12/2011	E52Q4 A4-MW130A 7/26/2012	E3XB2 A4-MW130A 1/11/2013	E3XE7 A4-MW130A 7/22/2013	E3XJ8 A4-MW130A 1/16/2013	E3XL5 A4-MW130A 7/22/2013	E3XO2 A4-MW130A 12/18/2013	E3XS6 A4-MW130A 5/22/2014	E3XW5 A4-MW130A 12/16/2014	E3XY6 A4-MW130A 5/21/2015	E3Y18 A4-MW130A 4/6/2016	E3Y57 A4-MW130A 10/3/2016	E3Y81 A4-MW130A 5/30/2017	
Analyte Name	RG																				
1,1,1-Trichloroethane	200	370D	580D	520D	630	630	290	140	120	130	53	64	20	11J	11	7.8	12	7.5	8	8.5	11
1,1,2-Trichloroethane	5	0.51	0.94	1.6	1.8J	1.1J	20U	0.5J	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,1-Dichloroethane	1400	35	39J	31	48	33	24	13	9.8	12	7.2	8.9	6.6	6.4J	8	10	11	9.3	9.6	14J	17
1,1-Dichloroethene	7	7.4J	13J	12J	18	8.5	9.2J	5	5UJ	5U	5U	5U	3.4	1.2	1.3	1.7	1.2	0.5U	1.8	1.8	3.3
Bromodichloromethane	0.2*	0.5U	0.5U	0.5UJ	5U	5U	20U	5U	5U	5U	5U	5U	0.5U	0.5U	0.19J	0.19J	0.12J	0.5U	0.5U	0.5U	0.5U
Carbon Tetrachloride	5	0.5UJ	84J	0.5U	5U	5U	20U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene	70	14J	10J	15J	13	7.8	6.9J	4.5J	3.4J	4.7J	2.9J	2.3J	1.9	2.2	1.8	2.3	2.2	2.1	2	2	2.1
Dichlorodifluoromethane (Freon 12)	1400	6.3	0.5U	20U	0.58J	5U	20U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
m,p-Xylene	10,000+	0.5U	0.5U	0.5U	5U	5U	20U	5U	5U	5U	5U	5U	0.5U	0.91	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.26J
Tetrachloroethene	5	0.88	0.99	0.78	5U	0.72J	20U	0.61J	5U	5U	0.7J	5U	0.26J	0.97	0.45J	0.57	0.45J	0.44J	0.41J	0.45J	0.46J
Toluene	1000	0.5U	0.5U	0.5U	5U	5U	20U	5U	5U	5U	5U	5U	0.5U	0.51	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.69
trans-1,2-Dichloroethene	100	0.38J	0.28J	20U	5U	0.39J	20U	5U	5U	5U	5U	5U	0.5U	0.32J	0.17J	0.39J	0.25J	0.26J	0.23J	0.26J	0.35J
Trichloroethene	5	3.6	3.7	2.5	4.9J	4.1J	3.4J	2.8J	5U	2.5J	2.1J	2J	1.3	1.6	1.3	1.5	0.96	1.4	1.4	1.5	1.7
Trichlorofluoromethane (Freon 11)	2100	0.5U	0.5UJ	20U	5U	20U	5U	5U	5U	0.25J	5U	0.5U	0.47J	0.31J	0.39J	0.21J	0.25J	0.5U	0.5U	0.27J	

EPA Sample ID Station Location Date	E3WN7 A4-MW130B 11/11/2009	E3WN8 A4-MW130B-D 11/11/2009	E3WQ5 A4-MW130B 2/10/2010	E5293 A4-MW130B 6/15/2010	E5294 A4-MW130B-D 6/15/2010	E52C3 A4-MW130B 10/7/2010	E52G7 A4-MW130B 1/13/2011	E52K2 A4-MW130B 4/18/2011	E52M7 A4-MW130B 7/19/2011	E52R2 A4-MW130B 10/12/2011	E52Q2 A4-MW130B 7/26/2012	E3XB3 A4-MW130B 1/11/2013	E3XE8 A4-MW130B 1/16/2013	E3XJ9 A4-MW130B 7/22/2013	E3XK0 A4-MW130B 12/18/2013	E3XL6 A4-MW130B 5/22/2014	E3XL7 A4-MW130B 12/18/2013	E3XO3 A4-MW130B 12/18/2013	E3XO4 A4-MW130B 5/22/2014	E3XS7 A4-MW130B 12/16/2014	E3XS8 A4-MW130B 12/16/2014	
Analyte Name	RG																					
1,1,1-Trichloroethane	200	110D	82D	260D	110	100	110	60	49	20	5U	17	12	8.1	13	4.6	4.4	6.1	6.4	6.5	7.4	7.5
1,1,2-Trichloroethane	5	0.18J	0.16J	0.55	0.27J	0.5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
1,1-Dichloroethane	1400	16	17	19	10	14	11	9.9	6.2	5U	8.1	6.7	7	11	6.8	6.6	8.3	8.2	8.3	11	11	
1,1-Dichloroethene	7	3.8	4.4J	6.1J	3J	3.2J	5U	2.5J	2.7J	5U	5U	5U	5U	5U	1.1	1.2	1.4J	1.3J	1.2	1.3	1.8	
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	12J	100R	11J	100R	100U	100R	100U	100UJ	NA	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	0.2*	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.12J	0.12J	
cis-1,2-Dichloroethene	70	8.2	8.7J	7.6J	4.7J	4.7J	7.1	4.7J	5.4	3.3J	5U	4J	3J	2.2J	2.8J	1.9	1.9	2.1J	2.1J	1.7	2.3	2.5
Dichlorodifluoromethane (Freon 12)	1400	9.1	0.5U	0.5U	0.5U	0.5U	0.5U	2.6J	5U	5U	5U	5U	13	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
m,p-Xylene	10,000+	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	0.4J	0.4J	0.34J	0.28J	0.5U	0.5U	0.5U	0.5U	
Methylene Chloride	5**	0.5U	0.5UJ	1U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U										

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3WN9 A4-MW401A 11/11/2009	E3WQ6 A4-MW401A 2/11/2010	E3WQ7 A4-MW401A 2/11/2010	E5295 A4-MW401A 6/14/2010	E52C5 A4-MW401A 10/6/2010	E52C6 A4-MW401A 10/6/2010	E52G8 A4-MW401A 1/12/2011	E52K3 A4-MW401A 4/18/2011	E52M8 A4-MW401A 7/19/2011	E52M9 A4-MW401A 7/19/2011	E52R3 A4-MW401A 10/11/2011	E52P9 A4-MW401A 1/10/2012	E3XB4 A4-MW401A 7/25/2012	E3XF4 A4-MW401A-D 1/15/2013	E5296 A4-MW401A-D 6/14/2010	E3XK3 A4-MW401A 7/22/2013	E3XM2 A4-MW401A 7/22/2013	E3XN4 A4-MW401A 12/17/2013	E3XR9 A4-MW401A 5/21/2014	E3XT8 A4-MW401A 12/16/2014	E3XZ3 A4-MW401A 5/20/2015	E3Y11 A4-MW401A 10/3/2016	
Analyte Name	RG																						
1,1,1-Trichloroethane	200	32D	8.7	8.9	5.9	9.9	9.6	10	4.7J	4.7J	3.3J	5.8	8.5	13	5.9	8.6	6.4	16	9.8	9.4	12	4.2	
1,1-Dichloroethane	1400	16	7.2	7.5	4.8	8.6	8.4	5U	8.5	5.3	5.4	3.9J	6.1	4.8J	3.9J	5	0.36J	4.9J	0.25J	0.5J	5.5	6.8	4.4
1,1-Dichloroethene	7	11J	1.5	0.5U	1.1	5U	5U	1.3J	5U	1.7J	5U	5U	5U	5U	1.3J	0.84	0.7	0.5U	0.5U	0.94	0.5U	0.88	
1,4-Dioxane	7.7	NA	NA	NA	NA	13J	100R	100R	100R	100R	100U	100R	100U	100U	100U	NA	NA	NA	NA	NA	NA	NA	
Acetone	6300*	5U	5U	5U	5U	20U	10U	20U	20U	20U	10U	10U	20U	10U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Benzene	5	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Bromodichloromethane	0.2*	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Chloromethane	-	1.2	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
cis-1,2-Dichloroethene	70	1.8J	4.8	4.9	3.3	5.9	5.8	5U	5.4	3.4J	3.4J	5U	3.5J	1.9J	5U	3.6J	0.5U	1.4	0.5U	0.5U	1.2	1.6	1
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	0.5U	0.5U	0.67J	0.62J	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Methylene Chloride	5*	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	10U	5U	5U	10U	0.5U	0.5U	0.5U	0.5U	0.5U	1U	0.5U	0.5U	
Tetrachloroethene	5	0.81	0.22J	0.23J	0.27J	5U	5U	0.54J	0.28J	0.28J	5U	5U	5U	5U	0.25J	0.5U	0.37J	0.09J	0.15J	0.33J	0.22J	0.14J	
Toluene	1000	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.63J	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
trans-1,2-Dichloroethene	100	0.5U	0.18J	0.19J	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Trichloroethene	5	6.3	2.3	2.3	2	3.1J	3.1J	3.1J	3.1J	1.7J	1.7J	5U	1.5J	1.3J	5U	1.8	0.5U	1.1	0.26J	0.2J	0.75	0.86	0.48J
Trichlorofluoromethane (Freon 11)	2100	0.5U	0.13J	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.29J	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	
Xylene (Total)	10,000	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	0.17J	0.27J	5U	0.22J	5U	0.5U	0.5U	0.34J	0.5U	0.5U	0.5U	0.77	0.5U	

EPA Sample ID Station Location Date	E3Y63 A4-MW401A 5/30/2017	E3Y73 A4-MW401A 11/14/2017
Analyte Name	RG	
1,1,1-Trichloroethane	200	8.5
1,1-Dichloroethane	1400	8.7J
1,1-Dichloroethene	7	1.5
1,4-Dioxane	7.7	NA
Acetone	6300*	5U
Benzene	5	0.5U
Bromodichloromethane	0.2*	0.5U
Chloromethane	-	0.5U
cis-1,2-Dichloroethene	70	1.8
Dichlorodifluoromethane (Freon 12)	1400	0.5U
Methylene Chloride	5*	0.5U
Tetrachloroethene	5	0.35J
Toluene	1000	0.5U
trans-1,2-Dichloroethene	100	0.26J
Trichloroethene	5	1.3
Trichlorofluoromethane (Freon 11)	2100	0.5U
Xylene (Total)	10,000	0.5U
		0.79J

EPA Sample ID Station Location Date	E3WP0 A4-MW401B 11/11/2009	E3WQ8 A4-MW401B 2/10/2010	E3WQ9 A4-MW401B 2/10/2010	E5297 A4-MW401B 6/14/2010	E52C7 A4-MW401B 10/6/2010	E52G9 A4-MW401B 1/13/2011	E52H0 A4-MW401B 1/13/2011	E52K4 A4-MW401B 4/18/2011	E52N0 A4-MW401B 7/19/2011	E52R4 A4-MW401B 10/11/2011	E52R5 A4-MW401B 10/11/2011	E52P8 A4-MW401B 1/10/2012	E52Q6 A4-MW401B 1/10/2012	E52Q7 A4-MW401B 1/10/2012	E3XB5 A4-MW401B 7/25/2012	E3XB6 A4-MW401B 7/25/2012	E3XF5 A4-MW401B 1/15/2013	E3XK4 A4-MW401B 7/22/2013	E3XM3 A4-MW401B 7/22/2013	E3XN5 A4-MW401B 12/17/2013	E3XS0 A4-MW401B 12/16/2014	E3XT9 A4-MW401B 5/20/2015
Analyte Name	RG				</td																	

**Table 5**  
**Comprehensive Compounds Exceeding Remediation Goals**  
**Souce Area 4 GMZ 2017 Report**  
**Southeast Rockford Groundwater Contamination Superfund Site**

EPA Sample ID Station Location Date	E3X24 A4-MW401B 4/5/2016	E3Y12 A4-MW401B 10/3/2016	E3Y64 A4-MW401B 5/30/2017	E3Y74 A4-MW401B 11/14/2017
Analyte Name	RG			
1,1,1-Trichloroethane	200	6.3	8	7
1,1-Dichloroethane	1400	11	11	13J
1,1-Dichloroethene	7	0.5U	0.5U	1.4
1,2,3-Trichlorobenzene	--	0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene	70*	0.5U	0.5U	0.5U
Bromodichloromethane	0.2*	0.14J	0.5U	0.5U
cis-1,2-Dichloroethene	70	2.4	2.4	2.1
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	0.5U
Methylene Chloride	5**	0.5U	0.5U	0.25J
Tetrachloroethene	5	0.31J	0.4J	0.45J
Toluene	1000	0.5U	0.5U	0.5U
trans-1,2-Dichloroethene	100	0.23J	0.32J	0.27J
Trichloroethene	5	1.3	1.4	1.4
Trichlorofluoromethane (Freon 11)	2100	0.22J	0.5U	0.23J
Xylene (total)	10,000	0.5U	0.5U	0.93J

EPA Sample ID Station Location Date	E3XH7 A4-MW403 7/22/2013	E3XM5 A4-MW403 12/17/2013	E3XM7 A4-MW403 5/21/2014	E3XM6 A4-MW403 5/21/2014	E3XR3 A4-MW403 12/16/2014	E3XT2 A4-MW403 5/19/2015	E3XZ5 A4-MW403 4/5/2016	E3Y10 A4-MW403 10/3/2016	E3Y65 A4-MW403 5/30/2017	E3Y72 A4-MW403 11/14/2017
Analyte Name										
1,1,1-Trichloroethane	200	24D	13	12	14	42D	3.9	70D	12	2
1,1-Dichloroethane	1400	7.7	3.1J	4.7	5.8J	14	6.7	20	2.7	3.3J
1,1-Dichloroethene	7	2.6	0.39J	0.55	0.67J	1.3	0.73	4.1	0.99J-	1.1
Acetone	6300*	5U	5U	10U	5U	5U	5U	5U	3.3J	5U
Benzene	5	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chloromethane	-	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene	70	0.98	0.91	1	1.3J	1.6	1.6	1	0.59J-	0.58
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	0.5U	0.5U	0.5U	0.38J	0.5U	0.5U	0.5U
Methylene Chloride	5**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.22J	0.5U
Tetrachloroethene	5	0.5U	0.25J	0.32J	0.39J	0.45J	0.37J	0.22J	0.19J	0.25J
Toluene	1000	0.5U	0.38J	0.5U	0.5U	2.3U	0.5U	0.5U	0.5U	0.25J
trans-1,2-Dichloroethene	100	0.5U	0.5U	0.077J	0.094J	0.2J	0.5U	0.5U	0.5U	0.5U
Trichloroethene	5	0.58	0.79	0.67	0.8	0.89	0.53	0.55	0.33J	0.5U
Xylene (total)	10,000	0.32J	0.39J	0.5U	0.5U	2.3	0.5U	0.5U	0.1J	0.27J

EPA Sample ID Station Location Date	E3Y66 A4-MW408A 5/30/2017	E3Y68 A4-MW408A-D 5/30/2017	E3Y83 A4-MW408A 11/15/2017	E3Y84 A4-MW408A-D 11/15/2017
Analyte Name				
1,1,1-Trichloroethane	200	4.4J	4.6J	5U
1,1-Dichloroethane	1400	8.9	9.6	9
Benzene	5	5U	5U	3.6J
cis-1,2-Dichloroethene	70	2J	2.1J	1.9J
Toluene	1000	5U	5U	5U
Trichloroethene	5	5U	5U	0.72J

**Notes:**

All results in micrograms per liter

Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410

Shaded results exceed remediation goal

\* Remediation goal from TACO (35 IAC 742)

-D = Duplicate sample

D = Diluted sample result

U = Not detected at value shown

J = Estimated result

R = Rejected

## Appendix A

### Groundwater Sampling Sheets

**Appendix A – Groundwater Sampling Sheets**

**First 2017 Semiannual, May 2017**

LOW FLOW GROUNDWATER SAMPLING

**SITE NAME:** Southeast Rockford, Area 4

DATE: 5/30/17

TIME: 12535

**WEATHER CONDITIONS:** Sunny - 70°

WELL #: MW-22A

#### **DEPTH OF PUMP:**

SAMPLERS: C. Cox, A. Schamber

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

## LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 5/30/17

TIME: 1535

WELL #: MW-22B

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, 70°  
SAMPLERS: C. Cox, A. Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	PH (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUS (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mV)
1540				7.92	1.25	—	1.26	16.62	17	
1550				7.97	1.27	209	1.86	14.67	0	
1600				8.05	1.30	114	2.01	14.59	6	
1610				8.10	1.28	32.0	1.81	15.50	19	
1615				8.08	1.27	25.3	1.79	16.02	19	
1620				8.03	1.27	17.5	1.90	15.79	22	
1625				8.06	1.27	10.6	1.90	15.62	19	
1630				8.05	1.27	15.8	1.93	15.40	24	
1635				8.01	1.28	5.6	1.95	15.3	32	
1640				8.07	1.28	6.0	2.09	15.19	31	
1645	Sample									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford Area

WELL 304-MW

DEATH OF PUMPS

TIME: 1025  
WEATHER CONDITIONS: CLOUDY 1-5" F

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

**SITE NAME:** Southeast Rockford Area 4

WELL#:  
MWS-32

### DEPTH OF PUMP:

SAMPLERS: J. Grabs

DATE: 5/30/17  
TIME: 10:15  
WEATHER CONDITIONS: Mostly Sunny, 65° F

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

## LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford Area

WELL #: MW-401A

DEPTH OF PUMP:

SAMPLES:

DATE: 5/30/17  
TIME: 1:50

## WEATHER CONDITIONS:

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET ( $\pm 0.3$ FT)	pH ( $\pm 0.25$ SU)	SPECIFIC COND. ( $\pm 50$ mS/cm)	TURBIDITY NTU'S ( $\pm 10\%$ )	DISSOLVED OXYGEN mg/L ( $\pm 10\%$ )	TEMP °C ( $\pm 5$ °C)	REDOX POTENTIAL mV ( $\pm 10$ mV)
1200				8.10	1.29	491	2.15	17.56	159	
1210				8.12	1.29	379	2.18	17.03	158	
1215				8.13	1.29	343	2.14	16.72	149	
1220				8.07	1.28	22.0	2.31	16.48	124	
1225				8.12	1.27	12.9	2.31	16.48	115	
1230				8.13	1.30	6.8	2.41	15.69	112	
1235				8.09	1.30	6.9	2.42	15.27	113	
1240				8.09	1.30	46.6	2.34	15.79	111	
1245										
1250 - Sample										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses.

LOW-FLOW GROUNDWATER SAMPLING

**SITE NAME:** Southeast Rockford Area

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DEPTH OF PUBLISHING

**DATE:** 5/30/17  
**TIME:** 1155  
**WEATHER CONDITIONS**

TIME

## WEATHER CONDITIONS

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

## LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford Area 4

WELL #: NW-408A

DEPTH OF PUMP: 35'

SAMPLERS: J. Grabs

DATE: 5/30/17  
 TIME: 12:30<sup>40.5°</sup>  
 WEATHER CONDITIONS: Sunny 67°<sup>F</sup>

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	PH (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUS (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5°C)	REDOX POTENTIAL mV (+/- 10 mv)
12:35		450		7.35	1.31	86.2	6.52	23.58	-28	
12:40				7.35	1.30	45.1	2.27	24.43	-20	
12:45				7.35	1.30	17.8	1.75	24.69	-12	
12:50				7.35	1.30	11.7	1.62	24.59	-9	
12:55				7.35	1.30	7.9	1.51	24.30	-7	
13:00				7.36	1.30	6.5	1.44	24.19	-6	
13:05				7.37	1.30	6.0	1.36	24.18	-4	
13:10				7.37	1.30	4.7	1.32	24.13	-6	
13:15										
13:20	SAMPLE									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

## LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford Area

WELL #: MW-1304

DATE: 5/30/17

TIME: 1400

## WEATHER CONDITIONS:

## DEPTH OF PUMP:

SAMPLERS: A. Schamber, C. Cox

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET ( $\pm 0.3$ FT)	pH ( $\pm 0.25$ SU)	SPECIFIC COND. ( $\pm 50$ mS/cm)	TURBIDITY NTUs ( $\pm 10\%$ )	DISSOLVED OXYGEN mg/L ( $\pm 5$ mg/L)	TEMP °C ( $\pm 5$ °C)	REDOX POTENTIAL mV ( $\pm 10$ mV)
1405		406		7.92	1.31	784	0.33	13.53	-1	15
1410		"		7.99	1.32	260	6.78	13.43		
1415		"		7.99	1.34	104	0.94	13.44	24	
1420		"		8.02	1.34	50.3	1.06	13.39	19	
1425		"		8.02	1.34	32.3	1.12	13.35	22	
1430				8.08	1.34	27.3	1.15	13.31	13	
1435				8.09	1.34	23.7	1.17	13.55	11	
1440				8.07	1.34	19.0	1.20	13.46	8	
1445				8.04	1.34	19.9	1.21	13.43	7	
1450										
1453	Sample									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses.

LOW FLOW GROUNDWATER SAMPLING

**SITE NAME:** Southeast Rockford Area

DATE: 5/30/17

TIME

#### **WEATHER CONDITIONS:**

**WELL #:** MW-130B  
**DEPTH OF PUMP:**

DEPTH OF HUNK:

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Appendix A – Groundwater Sampling Sheets

Second 2017 Semiannual, November 2017

U.S. EPA

DateShipped: 11/15/2017  
CarrierName: FedEx  
AirBillNo: 27792-32687289

770759723132

**CHAIN OF CUSTODY RECORD**

SHE9 # LD9811000417

Sands 479

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No: 5-11317-153533-0029

158

LBD: Steak

Lab Contact: Robert Zhu

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Lab Phone: 803-791-9700

**CHAIN OF CUSTODY RECORD**

SHE9 # LD9811000417

Sands 479

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No: 5-11317-153533-0029

136

LBD: Steak

Lab Contact: Robert Zhu

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Lab Phone: 803-791-9700

Lab #	Sample #	CLP Sample #	Tag	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Storage	Lab QC	Sampler
	A4-TB01-171114	E3Y69	261616	TB01	CLP trace TCL Volatiles	Water	Grab	11/14/2017	4:00	HCl	N	John Grabs
	A4-MW32-171114	E3Y70	261617	MW32	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	11:55	HCl	N	John Grabs
	A4-MW32-171114-D	E3Y71	261618	MW32	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	11:55	HCl	N	John Grabs
	A4-MW403-171114	E3Y72	261619	MW403	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	14:30	HCl	N	John Grabs
	A4-MW401A-171114	E3Y73	261620	MW401A	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	16:05	HCl	N	John Grabs
	A4-MW401B-171114	E3Y74	261621	MW401B	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	17:00	HCl	Y	John Grabs
	A4-EW002-171114	E3Y75	261622	EW002	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	15:50	HCl	N	John Grabs
	A4-EW003-171114	E3Y76	261623	EW003	CLP TCL Volatiles - Low Conc.	Groun d Water	Grab	11/14/2017	16:10	HCl	Y	John Grabs
	A4-EW001-171114	E3Y77	261624	EW001	CLP trace TCL Volatiles	Groun d Water	Grab	11/14/2017	15:35	HCl	N	John Grabs

**Special Instructions:** Please return sample cooler using prepaid label included in this shipment. Custody seal #'s 115349 and 115350. Use CLP Sample #'s E3Y74 and E3Y76 for NIS/MSD Samples. Case Complete.

CHAIN OF CUSTODY #

USEPA

Data Shinned: 11/15/2017

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CarrierName: FedEx

Airline No. 7702 3229 2209

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Sample #

**CHAIN OF CUSTODY RECORD**

**CHAIN OF CUSTODY RECORD**

Site # 11 0981000117

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No. E 111047

HOUSE

Lah: Sheesly

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Lab #	Sample #	CLP Sample #	Tag	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Preservativ	Storage	Lab QC	Sampler
A4-FB01-171114	E3Y78	261625	FB01		CLP trace TCL Volatiles	Water	Grab	11/14/2017	8:10	2	HCl	C	N	John Grabs
A4-MW22A-171115	E3Y79	261626	MW22A		CLP trace TCL Volatiles	Ground Water	Grab	11/15/2017	09:10	3	HCl	C	N	John Grabs
A4-MW22B-171115	E3Y80	261627	MW22B		CLP trace TCL Volatiles	Ground Water	Grab	11/15/2017	09:45	3	HCl	C	N	John Grabs
A4-MW130A-171115	E3Y81	261628	MW130A		CLP trace TCL Volatiles	Ground Water	Grab	11/15/2017	12:00	3	HCl	C	N	John Grabs
A4-MW130B-171115	E3Y82	261629	MW130B		CLP trace TCL Volatiles	Ground Water	Grab	11/15/2017	1:15	3	HCl	C	N	John Grabs
A4-MW0408A-171115	E3Y83	261630	MW0408A		CLP TCL Volatiles - Low Conc.	Ground Water	Grab	11/15/2017	1:55	3	HCl	C	N	John Grabs
A4-MW0408AD	E3Y84	261631	MW0408A		CLP TCL Volatiles - Low Conc.	Ground Water	Grab	11/15/2017	14:05	3	HCl	C	N	John Grabs

**Special Instructions:** Please return sample cooler using prepaid label included in this shipment. Custody seal #'s 115349 and 115350. Use CLP Sample #s E374 and E3776 for MS/MSD Samples. Case Complete.

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

## **LOW FLOW GROUNDWATER SAMPLING**

**SITE NAME:** Southeast Rockford Area

DATE: 11/15/17  
TIME: 13:00

WELDING

DEPTH OF PUMP:

SAVINGS

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every 10 minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

## LOW FLOW GROUNDWATER SAMPLING

**SITE NAME:** Southwest Rockford Area

DATE: 11/15/17 TIME: 82:11

WELL #:  
FIREM WOE DRILL:

DISPATCH OF PUMPS

**WEATHER CONDITIONS:** 45°F, cloudy, mist, calm

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Grafo's

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging of 250 ml/min during sampling. *Accumulation* time for three consecutive readings by the measurements indicated in parentheses. The well is considered stabilized and ready-for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses:

362 25.74

LOW FLOW GROUNDWATER SAMPLING

SITE NAME Southeast Rockford Area 4

DATE: 11/14/17  
TIME: 11:00

WELL NO. 32

DEPTH OF BURNS

WEATHER CONDITIONS: 45°F, Cloudy, Slight breeze  
SAMPLERS: Gross

WEATHER CONDITIONS:

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during sampling. Readings should be taken every 1 minute. The well is considered stabilized and ready-for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

$$m = 2.162$$

LOW FLOW GROUNDWATER SAMPLING

## SITE NAME      Southeast Rockford, Area

DATE: 11/15/17 TIME: 11:49

WELL NO. MUS-13817

DEPTH OF FIELD

WEATHER CONDITIONS: 48.0°F, cloudy, mist, calm  
SAMPLERS: Great

Drawdown is not to exceed 0.3 or a major flow rate should not exceed 300 ml/min during sampling. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses.

LOW FLOW GROUNDWATER SAMPLING

**SITE NAME** Southeast Rockford Area **BO**

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DATE: 11/15/17

WELL  $M13 = 120/2$

Digitized by Google

## **WEATHER CONDITIONS:**

SAMPLERS: GrubS

**SAMPLERS:** Grus

rate should not exceed 300 mm/min. until plugging or  $\Delta h$  and  $\Delta t$  indicate otherwise. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

## LOW FLOW GROUNDWATER SAMPLING

Southeast Rockford, Area

DATE: 11/14/17

WELL W 3401A

DEBT OF PLIMP

TIME: 13:15 DEPTH OF PUMP: 0  
 WEATHER CONDITIONS: 45°F, cloudy, calm SAMPLERS: Jacobs

WATER CONSERVATION

SAMPLERS: Searched \_\_\_\_\_

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every 1 minute for 3 minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses.

#### LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

SITE NAME: Southeast Rockford Area DATE: 11/14/17  
 TIME: 16:30 WEATHER CONDITIONS: 46°F, cloudy, S $\downarrow$ t breeze  
 WELL #: MW401 DEPTH OF PUMP: 550 ft  
 SAMPLERS: CSCB/S

WEATHER CONDITIONS: 46°F, cloudy, S $\delta$  breeze SAMPLERS:

strawbowls as not to exceed 0.5 or a 100. Flow rate should not exceed 300 ml/min during purging or 200 ml/min during sampling. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses:



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LOW-EI OW GROUNDWATER SAMPLING

SOUTH EAST BUCKFIELD AREA

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DATE: 11/15/17

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WEATHER CONDITIONS:

WELL #: M3-408

DEPTH OF PUMP:

SCAMPERERS

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every minute to 1.1 minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

## Appendix B

### Analytical Data

**Appendix B – Analytical Data**

**First 2017 Semiannual, May 2017**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data  
Received for Review on: June 20, 2017

FROM: Timothy Prendiville, Supervisor (SR-6J)  
Superfund Contract Management Section

TO: Data User: CDM Smith  
Email Address: grabsjc@cdm.com

**Electronic and Manual Validation for Region 5**

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater (IL)

Case No: 47011 MA No: N/A SDG No: E3Y53

Number and Type of Samples: 16 waters (13 Trace Volatiles, 3 Low/medium Volatiles)

Sample Numbers: E3Y53 – E3Y68

Laboratory: Chemtech Hrs for Review:

Following are our findings:

CC: Howard Pham  
Region 5 TPO  
Mail Code: SA-5J

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Sixteen (16) HCl-preserved water samples, E3Y53 through E3Y68, were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. The samples were collected May 30, 2017 and received on May 31, 2017, intact and properly cooled.

Thirteen (13) samples; E3Y53, E3Y54, E3Y56 through E3Y65 and E3Y67, were analyzed for the trace volatile analyte list according to CLP SOW SOM02.4 (October 2016). Three (3) samples; E3Y55, E3Y66 and E3Y68, were analyzed for the low/medium level volatile analyte list according to CLP SOW SOM02.4 (October 2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region 5 Organic CLP Validation SOP.

Low/medium volatile sample E3Y55 and trace volatile sample E3Y64 were designated as the parent samples for the MS/MSD analyses.

Trace volatile sample, E3Y67, was identified as a trip blank. Trace volatile sample, E3Y56, was identified as a field blank. Trace volatile sample E3Y62 was identified as a field duplicate of trace volatile sample E3Y61. Low/medium volatile sample E3Y68 was identified as a field duplicate of low/medium volatile sample E3Y66.

## **1. PRESERVATION AND HOLDING TIMES**

No problems found.

## **2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

No problems found.

## **3. INITIAL CALIBRATION**

The following trace volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Non-detects are not qualified.

E3Y53, E3Y54, E3Y56, E3Y57, E3Y58, E3Y59, E3Y60, E3Y61, E3Y62, E3Y63,  
E3Y64, E3Y64MS, E3Y64MSD, E3Y65, E3Y67, VBLK66  
1,1-Dichloroethane

The following low/medium volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detects are not qualified. Non-detects are not qualified.

E3Y55, E3Y55MS, E3Y55MSD, E3Y66, E3Y68, VBLK50, VHBLK02  
trans-1,3-Dichloropropene-d<sub>4</sub>

## **4. INITIAL CALIBRATION VERIFICATION**

The following low/medium volatile samples are associated with an ICV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3Y55, E3Y55MS, E3Y55MSD, E3Y66, E3Y68, VBLK50, VHBLK02  
trans-1,3-Dichloropropene-d<sub>4</sub>

## **5. CONTINUING CALIBRATION**

The following trace volatile samples are associated with a closing CCV with %Difference (%D) exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as estimated UJ.

E3Y53, E3Y54, E3Y56, E3Y57, E3Y58, E3Y59, E3Y60, E3Y61, E3Y62, E3Y63,  
E3Y64, E3Y64MS, E3Y64MSD, E3Y65, E3Y67, VBLK66  
1,1-Dichloroethane

The following low/medium volatile samples are associated with an opening or closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3Y55, E3Y55MS, E3Y55MSD, E3Y66, E3Y68, VBLK50, VHBLK02  
trans-1,3-Dichloropropene-d<sub>4</sub>

## **6. BLANKS**

No problems found.

## **7. DEUTERATED MONITORING COMPOUNDS / SURROGATES**

The following low/medium volatile samples have a DMC/surrogate percent recoveries greater than the primary maximum criteria. The analytes were not detected in the sample. Non-detects are not qualified.

E3Y55  
4-Methyl-2-pentanone, 2-Hexanone

## **8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

Low/medium volatile sample E3Y55 and trace volatile sample E3Y64 were designated as the parent samples for the MS/MSD analyses.

No problems found.

## **9. FLORISIL CARTRIDGE PERFORMANCE CHECK**

Not required for these analyses.

## **10. CLEANUP PROCEDURES**

Not required for these analyses.

## **11. LABORATORY CONTROL SAMPLE**

Not required for these analyses.

## **12. INTERNAL STANDARD**

No problems found.

## **13. TARGET ANALYTE IDENTIFICATION**

No problems found.

#### **14. REPORTED CONTRACT QUANTITATION LIMIT**

The following trace volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3Y53, E3Y57  
trans-1,2-Dichloroethene, Tetrachloroethene

E3Y54  
trans-1,2-Dichloroethene, o-Xylene

E3Y58  
Trichlorofluoromethane, Methylene chloride, trans-1,2-Dichloroethene, Toluene,  
Tetrachloroethene, m,p-Xylene

E3Y59  
Methylene chloride, o-Xylene

E3Y60  
Trichlorofluoromethane, trans-1,2-Dichloroethene, Tetrachloroethene, m,p-Xylene

E3Y61  
trans-1,2-Dichloroethene

E3Y62  
Methylene chloride, trans-1,2-Dichloroethene

E3Y63  
Methylene chloride, trans-1,2-Dichloroethene, Tetrachloroethene

E3Y64, E3Y64MSD  
Trichlorofluoromethane, Methylene chloride, trans-1,2-Dichloroethene,  
Tetrachloroethene

E3Y64MS  
Trichlorofluoromethane, trans-1,2-Dichloroethene, Tetrachloroethene

E3Y65  
Methylene chloride, Toluene, Tetrachloroethene, m,p-Xylene

The following low/medium volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3Y55  
Acetone, cis-1,2-Dichloroethene, Trichloroethene, o-Xylene, m,p-Xylene

E3Y55MS, E3Y55MSD  
Acetone, cis-1,2-Dichloroethene, o-Xylene, m,p-Xylene

E3Y66, E3Y68  
Cis-1,2-Dichloroethene, 1,1,1-Trichloroethane

## 15. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled '47011.EPW14030.E3Y53.TIC.rtf'.

## 16. SYSTEM PERFORMANCE

No problems found.

## 17. FIELD QC SAMPLES

Trace volatile sample, E3Y67, was identified as a trip blank. Trace volatile sample, E3Y56, was identified as a field blank. Neither sample contained any target compounds (TCLs) or Tentatively Identified Compound (TICs).

Trace volatile sample E3Y62 was identified as a field duplicate of trace volatile sample E3Y61. Sample results and RPDs are summarized in the following table:

Sample Type:	Field Sample	Field Duplicate	
CLP Sample #:	<b>E3Y61</b>	<b>E3Y62</b>	
User Sample #:	A4-MW32-170530	A4-MW32-170530-D	
Location:	MW32	MW32	
Collection Date/Time:	5/30/2017 11:10	5/30/2017 11:10	RPDs
Units:	µg/L	µg/L	%
1,1-Dichloroethene	0.99	1.0	1.01
Methylene chloride	ND	0.22	J 200
trans-1,2-Dichloroethene	0.22	J 0.24	J 8.70
1,1-Dichloroethane	5.8	9.3	46.4
cis-1,2-Dichloroethene	2.0	2.0	0.00
Chloroform	1.2	1.2	0.00
1,1,1-Trichloroethane	5.2	5.4	3.77
Trichloroethene	1.5	1.6	6.45
Bromodichloromethane	0.95	0.99	4.12
Tetrachloroethene	0.59	0.61	3.33
Dibromochloromethane	0.72	0.71	1.40

Low/medium volatile sample E3Y68 was identified as a field duplicate of low/medium volatile sample E3Y66. Sample results and RPDs are summarized in the following table:

Sample Type:	Field Sample	Field Duplicate	
CLP Sample #:	<b>E3Y66</b>	<b>E3Y68</b>	
User Sample #:	A4-MW408A-170530	A4-MW-408A-170530-D	
Location:	MW0408A	MW0408A	
Collection Date/Time:	5/30/2017 13:20	5/30/2017 13:20	RPDs
Units:	µg/L	µg/L	%
1,1-Dichloroethane	8.9	9.6	7.57
cis-1,2-Dichloroethene	2.0	J	2.1
1,1,1-Trichloroethane	4.4	J	4.6
			4.44

## 18. OVERALL ASSESSMENT

Manual integrations were performed for the following samples due to a “peak integrated by software incorrectly” according to the laboratory narrative. These manual integrations were reviewed by the reviewer and appear to be acceptable without additional qualifications.

QC Type	EPA samples	Date/Time analyzed	File ID	Analytes
TVOA ICAL	VSTD00167	30 May 2017 14:48	VV002125.D	TAL – Acetone
VOA FS	<b>E3Y55</b>	31 May 2017 14:17	VU016985.D	TAL – 1,1-Dichloroethene
VOA BS	VHBLK02	31 May 2017 16:27	VU016990.D	DMC – 2-Butanone-d <sub>5</sub>

Validation Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y53	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EW001	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 09:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.9	J	ug/L	5.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.5		ug/L	7.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.42	J	ug/L	0.42	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	2.0	J	ug/L	2.0	J	1.0	YES	NV
unknown-01	TIC	1.5	J	ug/L	1.5	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y54	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EW002	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 09:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	6.1		ug/L	6.1		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	12	J	ug/L	12		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.9		ug/L	1.9		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.9		ug/L	5.9		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.63		ug/L	0.63		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.24	J	ug/L	0.24	J	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	2.2	J	ug/L	2.2	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mesitylene	TIC	1.7	J	ug/L	1.7	J	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	1.0	J	ug/L	1.0	J	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	0.76	J	ug/L	0.76	J	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	0.75	J	ug/L	0.75	J	1.0	YES	NV
Benzene, 1-methyl-3-(1-methylethyl	TIC	0.63	J	ug/L	0.63	J	1.0	YES	NV
Total Alkanes	TIC	1.3	B	ug/L	1.3	B	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y55	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: EW003	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 09:35:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	7.1		ug/L	7.1		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	2.1	J	ug/L	2.1	J	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.3	J	ug/L	2.3	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.1		ug/L	6.1		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	1.4	J	ug/L	1.4	J	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	1.4	J	ug/L	1.4	J	1.0	YES	S3VE
m,p-Xylene	Target	2.1	J	ug/L	2.1	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,3-trimethyl-	TIC	12	J	ug/L	12	J	1.0	YES	NV
Mesitylene	TIC	5.2	J	ug/L	5.2	J	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	4.5	J	ug/L	4.5	J	1.0	YES	NV
Benzene, 1-ethyl-4-methyl-	TIC	4.5	J	ug/L	4.5	J	1.0	YES	NV
Benzene, 1,2,3,4-tetramethyl-	TIC	3.3	J	ug/L	3.3	J	1.0	YES	NV
Benzene, 1-methyl-4-(2-propenyl)-	TIC	2.6	J	ug/L	2.6	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y55MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 09:35:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	57		ug/L	57		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	10		ug/L	10		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.2	J	ug/L	2.2	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.0		ug/L	6.0		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Spike	51		ug/L	51		1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Spike	47		ug/L	47		1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Spike	50		ug/L	50		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Spike	49		ug/L	49		1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	1.4	J	ug/L	1.4	J	1.0	YES	S3VE
m,p-Xylene	Target	2.0	J	ug/L	2.0	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y55MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 09:35:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	51		ug/L	51		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	2.5	J	ug/L	2.5	J	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.0		ug/L	9.0		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.9	J	ug/L	1.9	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.4		ug/L	5.4		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Spike	48		ug/L	48		1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Spike	44		ug/L	44		1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Spike	47		ug/L	47		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Spike	46		ug/L	46		1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	1.0	J	ug/L	1.0	J	1.0	YES	S3VE
m,p-Xylene	Target	1.5	J	ug/L	1.5	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y56	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: FB01	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 15:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y57	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW130A	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 14:53:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	14	J	ug/L	14		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.5		ug/L	8.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	3.5	J	ug/L	3.5	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y58	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW130B	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.24	J	ug/L	0.24	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	13	J	ug/L	13		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.9		ug/L	7.9		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.43	J	ug/L	0.43	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Ethane, 1-chloro-1,1-difluoro-	TIC	4.0	J	ug/L	4.0	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y59	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW22A	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 16:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.7		ug/L	6.7		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.58		ug/L	0.58		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
m,p-xylene	Target	0.52		ug/L	0.52		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y60	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW22B	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 16:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.2		ug/L	1.2		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	12	J	ug/L	12		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.2		ug/L	7.2		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.40	J	ug/L	0.40	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.21	J	ug/L	0.21	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	4.5	J	ug/L	4.5	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y61	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW32	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 11:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.99		ug/L	0.99		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.8	J	ug/L	5.8		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	1.2		ug/L	1.2		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.2		ug/L	5.2		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.95		ug/L	0.95		1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.59		ug/L	0.59		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.72		ug/L	0.72		1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y62	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW32	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 11:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.0		ug/L	1.0		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.3	J	ug/L	9.3		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	1.2		ug/L	1.2		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.4		ug/L	5.4		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.99		ug/L	0.99		1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.61		ug/L	0.61		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.71		ug/L	0.71		1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y63	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW401A	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 12:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.7	J	ug/L	8.7		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.5		ug/L	8.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.35	J	ug/L	0.35	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	3.5	J	ug/L	3.5	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y64	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW401B	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 12:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	13	J	ug/L	13		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.0		ug/L	7.0		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	4.6	J	ug/L	4.6	J	1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y64MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 12:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	5.8		ug/L	5.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	13	J	ug/L	13		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.3		ug/L	2.3		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.2		ug/L	7.2		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	4.6		ug/L	4.6		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	5.7		ug/L	5.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	4.4		ug/L	4.4		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.47	J	ug/L	0.47	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	4.5		ug/L	4.5		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y64MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 12:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.21	J	ug/L	0.21	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	5.5		ug/L	5.5		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	13	J	ug/L	13		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.1		ug/L	7.1		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	4.7		ug/L	4.7		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	5.7		ug/L	5.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	4.5		ug/L	4.5		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.43	J	ug/L	0.43	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	4.5		ug/L	4.5		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y65	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW403	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 11:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	3.3	J	ug/L	3.3		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.58		ug/L	0.58		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	2.0		ug/L	2.0		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y66	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW0408A	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 13:20:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.9		ug/L	8.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0	J	ug/L	2.0	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	4.4	J	ug/L	4.4	J	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y67	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB01	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 11:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: E3Y68	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW0408A	pH: 1.0	Sample Date: 05/30/2017	Sample Time: 13:20:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.6		ug/L	9.6		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1	J	ug/L	2.1	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	4.6	J	ug/L	4.6	J	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: VBLK50	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: VBLK66	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: VBLK67	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

Sample Number: VHBLK02	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochemicalmethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47011

Contract: EPW14030

SDG: E3Y53

Lab Code: CHM

**Appendix B – Analytical Data**

**Second 2017 Semiannual, November 2017**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data  
Received for Review on: December 8, 2017

FROM: Timothy Prendiville, Supervisor (SR-6J)  
Superfund Contract Management Section

TO: Data User: CDM Smith  
Email Address: grabsjc@cdm.com

**Electronic and Manual Validation for Region 5**

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater (IL)

Case No: 47329 MA No: N/A SDG No: E3Y69

Number and Type of Samples: 16 waters (13 Trace Volatiles, 3 Low/medium Volatiles)

Sample Numbers: E3Y69 – E3Y84

Laboratory: Shealy Environmental Services (EQI) Hrs. for Review:

Following are our findings:

CC: Howard Pham  
Region 5 TPO  
Mail Code: SA-5J

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Sixteen (16) preserved water samples, E3Y69 through E3Y84, were shipped to Shealy Environmental Services (EQI) located in West Columbia, SC. The samples were collected November 14-15, 2017 and received on November 16, 2017, intact and properly cooled.

Thirteen (13) samples; E3Y69 through E3Y75 and E3Y77 through E3Y82, were analyzed for the trace volatile analyte list according to CLP SOW SOM02.4 (October 2016). Three (3) samples; E3Y76, E3Y83 and E3Y84, were analyzed for the low/medium level volatile analyte list according to CLP SOW SOM02.4 (October 2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region 5 Organic CLP Validation SOP.

Low/medium volatile sample E3Y76 and trace volatile sample E3Y74 were designated as the parent samples for the MS/MSD analyses.

Trace volatile sample, E3Y69, was identified as a trip blank. Trace volatile sample, E3Y78, was identified as a field blank. Trace volatile sample E3Y71 was identified as a field duplicate of trace volatile sample E3Y70. Low/medium volatile sample E3Y84 was identified as a field duplicate of low/medium volatile sample E3Y83.

## **1. PRESERVATION AND HOLDING TIMES**

No problems found.

## **2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

No problems found.

## **3. INITIAL CALIBRATION**

No problems found.

## **4. INITIAL CALIBRATION VERIFICATION**

No problems found.

## **5. CONTINUING CALIBRATION**

No problems found.

## **6. BLANKS**

The following trace volatile samples have analyte results reported less than CRQL. The associated trip blank, E3Y69, results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3Y70, E3Y71, E3Y75, E3Y77, E3Y79  
Toluene

E3Y71, E3Y75, E3Y79, E3Y80, E3Y81  
m,p-Xylene

The following trace volatile samples have analyte results reported greater than or equal to CRQLs and less than the field blank, E3Y78, result. The associated field blank results are greater than or equal to CRQLs. Detects are qualified U. Blank results have been reported as the sample analyte results.

E3Y70, E3Y71, E3Y74, E3Y79  
Benzene

## **7. DEUTERATED MONITORING COMPOUNDS / SURROGATES**

No problems found.

## **8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

Low/medium volatile sample E3Y76 and trace volatile sample E3Y74 were designated as the parent samples for the MS/MSD analyses.

No problems found.

## **9. FLORISIL CARTRIDGE PERFORMANCE CHECK**

Not required for these analyses.

## **10. CLEANUP PROCEDURES**

Not required for these analyses.

## **11. LABORATORY CONTROL SAMPLE**

Not required for these analyses.

## **12. INTERNAL STANDARD**

No problems found.

## **13. TARGET ANALYTE IDENTIFICATION**

No problems found.

## **14. REPORTED CONTRACT QUANTITATION LIMIT**

The following trace volatile samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3Y69  
Toluene, m,p-Xylene

E3Y70  
trans-1,2-Dichloroethene, Bromodichloromethane, Dibromochloromethane

E3Y71  
Chloromethane, trans-1,2-Dichloroethene, Dibromochloromethane

E3Y72  
1,1-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, o-Xylene

E3Y73, E3Y74, E3Y74MS, E3Y74MSD, E3Y81, E3Y82  
Trichlorofluoromethane, trans-1,2-Dichloroethene, Tetrachloroethene, o-Xylene

E3Y75, E3Y77  
trans-1,2-Dichloroethene, Tetrachloroethene

E3Y80  
Trichlorofluoromethane, trans-1,2-Dichloroethene, Tetrachloroethene

The following low/medium volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3Y76  
cis-1,2-Dichloroethene, Trichloroethene, m,p-Xylene

E3Y76MS, E3Y76MSD  
cis-1,2-Dichloroethene, m,p-Xylene

E3Y83  
cis-1,2-Dichloroethene, Benzene, Trichloroethene

E3Y84  
cis-1,2-Dichloroethene, Benzene, Trichloroethene, Toluene

## **15. TENTATIVELY IDENTIFIED COMPOUNDS**

Sample results are identified in the separate Data Validation Report titled ‘Tentatively Identified Compounds’. The manually reviewed report is titled ‘47329.EPW14035.E3Y69.TIC.rtf’.

## **16. SYSTEM PERFORMANCE**

No problems found.

## **17. FIELD QC SAMPLES**

Trace volatile sample, E3Y69, was identified as a trip blank. Sample E3Y69 contained Toluene with a concentration of 0.24 µg/L and m,p-Xylene with a concentration of 0.20 µg/L.

Trace volatile sample, E3Y78, was identified as a field blank. Sample E3Y78 contained Benzene with a concentration of 0.84 µg/L and one TIC.

Trace volatile sample E3Y71 was identified as a field duplicate of trace volatile sample E3Y70. Sample results and RPDs are summarized in the following table:

Case No: 47329  
 Site Name: Southeast Rockford Groundwater (IL)

Sample Type:	Field Sample	Field Duplicate	
CLP Sample #:	<b>E3Y70</b>	<b>E3Y71</b>	
User Sample #:	A4-MW32-171114	A4-MW32-171114-D	
Location:	MW32	MW32	
Collection Date/Time:	11/14/2017 11:55	11/14/2017 11:55	RPDs
Units:	µg/L	µg/L	%
Chloromethane	ND	0.18	J 200
1,1-Dichloroethene	1.8	1.8	0.00
trans-1,2-Dichloroethene	0.32	J 0.30	J 6.50
1,1-Dichloroethane	11	11	0.00
cis-1,2-Dichloroethene	2.5	2.5	0.00
Chloroform	0.62	0.63	1.60
1,1,1-Trichloroethane	9.0	9.5	5.40
Trichloroethene	2.3	2.5	8.30
Bromodichloromethane	0.41	J ND	200
Tetrachloroethene	0.65	0.65	0.00
Dibromochloromethane	0.27	J 0.33	J 20.0

Low/medium volatile sample E3Y84 was identified as a field duplicate of low/medium volatile sample E3Y83. Sample results and RPDs are summarized in the following table:

Sample Type:	Field Sample	Field Duplicate	
CLP Sample #:	<b>E3Y83</b>	<b>E3Y84</b>	
User Sample #:	A4-MW408A-171115	A4-MW408A-171115-D	
Location:	MW0408A	MW0408A	
Collection Date/Time:	11/15/2017 14:05	11/15/2017 14:05	RPDs
Units:	µg/L	µg/L	%
1,1-Dichloroethane	9.0	8.5	5.70
cis-1,2-Dichloroethene	1.9	J 1.8	J 5.40
Benzene	3.6	J 3.3	J 8.70
Trichloroethene	0.72	J 0.68	J 5.70
Toluene	ND	0.58	J 200

ND = Not Detected.

## 18. OVERALL ASSESSMENT

Manual integrations were performed for the following samples due to a “peak integrated by software incorrectly” according to the laboratory narrative. These manual integrations were reviewed by the reviewer and appear to be acceptable without additional qualifications.

QC Type	EPA samples	Date/Time analyzed	File ID	Analytes
TVOA ICAL	VSTD001GX	20-Nov-2017 12:10	81120B06.D	TALs – Methylene acetate, Cyclohexane, 1,2-Dichloropropane, 1,2-Dibromoethane and Bromoform
TVOA ICAL	VSTD0.5GX	20-Nov-2017 12:36	81120B07.D	TALs – Methyl acetate, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,2-Dibromoethane, Bromoform, 1,1,2,2-Tetrachloroethane and 1,2-Dibromo-3-chloropropane
VOA ICAL	VSTD005SN	24-Oct-2017 18:34	51024B03.D	DMCs – 2-Butanone-d <sub>5</sub> , 1,2-Dichloroethane-d <sub>4</sub> and 2-Hexanone-d <sub>5</sub>
VOA ICAL	VSTD010SN	24-Oct-2017 18:56	51024B04.D	DMC – 2-Butanone-d <sub>5</sub>
VOA ICV	VICVSN	24-Oct-2017 20:50	51024B08.D	DMC – 2-Butanone-d <sub>5</sub>
VOA CCV	VSTD050GZ	20-Nov-2017 09:30	51120A03.D	DMC – 2-Butanone-d <sub>5</sub>

Validation Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y69	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB01	pH: 2	Sample Date: 11/14/2017	Sample Time: 14:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.24	J	ug/L	0.24	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC			ug/L	0.58	NJ	1.0	NO	NV
Unknown-01	TIC	0.71	J	ug/L	0.71	J	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y70	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW32	pH: 2	Sample Date: 11/14/2017	Sample Time: 11:55:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.5		ug/L	2.5		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.62		ug/L	0.62		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	9.0		ug/L	9.0		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.71	U	ug/L	0.71		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.3		ug/L	2.3		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.41	J	ug/L	0.41	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.23	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.65		ug/L	0.65		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y71	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW32	pH: 2	Sample Date: 11/14/2017	Sample Time: 11:55:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.18	J	ug/L	0.18	J	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.5		ug/L	2.5		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.63		ug/L	0.63		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	9.5		ug/L	9.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.70	U	ug/L	0.70		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.5		ug/L	2.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.32	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.65		ug/L	0.65		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.22	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y72	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW403	pH: 2	Sample Date: 11/14/2017	Sample Time: 14:30:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.40	J	ug/L	0.40	J	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	2.1		ug/L	2.1		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.46	J	ug/L	0.46	J	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	2.3		ug/L	2.3		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	3.0		ug/L	3.0		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.55		ug/L	0.55		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
m, p-Xylene	Target	0.67		ug/L	0.67		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	0.53	NJ	ug/L	0.53	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y73	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW401A	pH: 2	Sample Date: 11/14/2017	Sample Time: 16:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	10		ug/L	10		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.4		ug/L	8.4		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	4.4		ug/L	4.4		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.53		ug/L	0.53		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.41	J	ug/L	0.41	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
m, p-Xylene	Target	0.53		ug/L	0.53		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.2	NJ	ug/L	4.2	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y74	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW401B	pH: 2	Sample Date: 11/14/2017	Sample Time: 17:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	12		ug/L	12		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.4		ug/L	2.4		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.8		ug/L	8.8		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.53	U	ug/L	0.53		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.64		ug/L	0.64		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.41	J	ug/L	0.41	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
m, p-Xylene	Target	0.65		ug/L	0.65		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.1	NJ	ug/L	4.1	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y74MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date: 11/14/2017	Sample Time: 17:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	6.6		ug/L	6.6		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.3		ug/L	2.3		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.5		ug/L	8.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.7		ug/L	5.7		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	6.9		ug/L	6.9		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	6.0		ug/L	6.0		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.0		ug/L	5.0		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
m, p-Xylene	Target	0.57		ug/L	0.57		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y74MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date: 11/14/2017	Sample Time: 17:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.24	J	ug/L	0.24	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	6.7		ug/L	6.7		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.4		ug/L	2.4		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.6		ug/L	8.6		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.7		ug/L	5.7		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	7.1		ug/L	7.1		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.8		ug/L	5.8		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.43	J	ug/L	0.43	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.3		ug/L	5.3		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
m, p-Xylene	Target	0.54		ug/L	0.54		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-2-fluoro-	TIC	4.4	NJ	ug/L	4.4	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-01	TIC	1.4	J	ug/L	1.4	J	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y75	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EW002	pH: 2	Sample Date: 11/14/2017	Sample Time: 15:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.9		ug/L	9.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	7.4		ug/L	7.4		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.26	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.42	J	ug/L	0.42	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.23	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	1.7	NJ	ug/L	1.7	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y76	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: EW003	pH: 2	Sample Date: 11/14/2017	Sample Time: 16:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.6		ug/L	8.6		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.1		ug/L	6.1		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	1.5	J	ug/L	1.5	J	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	1.6	J	ug/L	1.6	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Mesitylene	TIC	8.8	NJ	ug/L	8.8	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y76MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date: 11/14/2017	Sample Time: 16:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	46		ug/L	46		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.3		ug/L	8.3		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.5		ug/L	5.5		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Spike	46		ug/L	46		1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Spike	50		ug/L	50		1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Spike	50		ug/L	50		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Spike	55		ug/L	55		1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	1.5	J	ug/L	1.5	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Mesitylene	TIC	7.7	NJ	ug/L	7.7	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y76MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date: 11/14/2017	Sample Time: 16:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	48		ug/L	48		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.5		ug/L	8.5		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.1		ug/L	6.1		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Spike	49		ug/L	49		1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Spike	52		ug/L	52		1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Spike	52		ug/L	52		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Spike	57		ug/L	57		1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	1.7	J	ug/L	1.7	J	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	8.8	NJ	ug/L	8.8	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y77	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EW001	pH: 2	Sample Date: 11/14/2017	Sample Time: 15:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.7		ug/L	8.7		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.0		ug/L	8.0		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.17	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	2.0	NJ	ug/L	2.0	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y78	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: FB01	pH: 2	Sample Date: 11/14/2017	Sample Time: 18:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.84		ug/L	0.84		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	0.61	J	ug/L	0.61	J	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y79	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW22A	pH: 2	Sample Date: 11/15/2017	Sample Time: 09:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	12		ug/L	12		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.64	U	ug/L	0.64		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.39	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.43	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y80	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW22B	pH: 2	Sample Date: 11/15/2017	Sample Time: 09:45:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.43	J	ug/L	0.43	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.2		ug/L	1.2		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	10		ug/L	10		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.9		ug/L	1.9		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	9.0		ug/L	9.0		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.90		ug/L	0.90		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.56		ug/L	0.56		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.46	J	ug/L	0.46	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.44	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.7	NJ	ug/L	4.7	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y81	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW130A	pH: 2	Sample Date: 11/15/2017	Sample Time: 12:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	3.3		ug/L	3.3		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.35	J	ug/L	0.35	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	17		ug/L	17		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	1.9		ug/L	1.9		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.69		ug/L	0.69		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.46	J	ug/L	0.46	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.48	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.2	NJ	ug/L	4.2	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y82	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW130B	pH: 2	Sample Date: 11/15/2017	Sample Time: 11:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.39	J	ug/L	0.39	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	13		ug/L	13		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	9.7		ug/L	9.7		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	1.9		ug/L	1.9		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.57		ug/L	0.57		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
m, p-Xylene	Target	0.57		ug/L	0.57		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	4.8	NJ	ug/L	4.8	NJ	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y83	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW0408A	pH: 2	Sample Date: 11/15/2017	Sample Time: 14:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.0		ug/L	9.0		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.9	J	ug/L	1.9	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	3.6	J	ug/L	3.6	J	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	0.72	J	ug/L	0.72	J	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: E3Y84	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW0408A	pH: 2	Sample Date: 11/15/2017	Sample Time: 14:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	8.5		ug/L	8.5		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	3.3	J	ug/L	3.3	J	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	0.68	J	ug/L	0.68	J	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	0.58	J	ug/L	0.58	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VBLKGZ	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Unknown-01	TIC	6.0	J	ug/L	6.0	J	1.0	YES	NV

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VBLKIC	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VBLKIK	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VBLKJJ	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE

# Sample Summary Report

Case: 47329

Contract: EPW14035

SDG: E3Y69

Lab Code: EQI